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
Address	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	: SDS@FranklinInternational.com
responsible for this SDS	
Reference number	: 500006
Product code	: 3703
Date of revision	: 10/17/2022
Safety Data Sheets are	: www.FranklinInternational.com
available online at	
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

Identified uses

Mustrial use wood glue. Wide dispersive use of substances in professional and DIY adhesives.

Uses advised against Not applicable.

Section 2. Hazards identification

OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	: Not classified.
GHS label elements	
Signal word	: 🕅 signal word.
Hazard statements	: 📈 known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.

against

Section 2. Hazards identification

Disposal

: Not applicable.

Hazards not otherwise classified

: None known.

Section 3. Composition/information on ingredients

Substance/mixture Other means of

identification

: Mixture : Not available.

: 🕅

Ingredient name	%	CAS number
auminium 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 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 fir	<u>'st aid measures</u>
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.
Skin contact	 Fush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if needed.
Ingestion	: Wash out mouth with water. 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/e	effects, acute and delayed
Potential acute health effe	<u>cts</u>
Eye contact	: 😰 his product may irritate eyes upon contact.
Inhalation	: 📈 known significant effects or critical hazards.
Skin contact	: 📈 known significant effects or critical hazards.
Ingestion	: 📈 known significant effects or critical hazards.
Over-exposure signs/sym	<u>otoms</u>
Eye contact	: 📈o specific data.
Inhalation	: 📈 specific data.
Skin contact	: 📈 specific data.
Ingestion	: No specific data.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	 Freat symptomatically. Contact poison treatment specialist immediately if large 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	on (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: 🗾 Se an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: \mathbf{M} 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 halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	Fromptly 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, protec	tive 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. 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 non-emergency personnel".
Environmental precautions	: Kooid 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	: P ut on appropriate personal protective equipment (see Section 8).						
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.						

Section 7. Handling and storage

Conditions for safe storage,	
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

Ingredient name		Exposure limits
aluminium chloride [Dry]		OSHA PEL 1989 (United States, 3/1989). Notes: as Al TWA: 2 mg/m ³ , (as Al) 8 hours. NIOSH REL (United States, 10/2020). Notes: as Al TWA: 2 mg/m ³ , (as Al) 10 hours.
Biological exposure indice	9S	
No exposure indices known		
Appropriate engineering controls	: Cood general ventilation should contaminants.	l be sufficient to control worker exposure to airborne
Environmental exposure controls	they comply with the requireme cases, fume scrubbers, filters o will be necessary to reduce emi	ork process equipment should be checked to ensure nts of environmental protection legislation. In some r engineering modifications to the process equipment ssions to acceptable levels.
Individual protection measured		
Hygiene measures	eating, smoking and using the I Appropriate techniques should	e thoroughly after handling chemical products, before avatory and at the end of the working period. be used to remove potentially contaminated clothing. fore reusing. Ensure that eyewash stations and safety tation location.
Eye/face protection	assessment indicates this is ne gases or dusts. If contact is po	an approved standard should be used when a risk cessary to avoid exposure to liquid splashes, mists, ssible, the following protection should be worn, unless her degree of protection: safety glasses with side-
Skin protection		
Hand protection		gloves complying with an approved standard should be chemical products if a risk assessment indicates this is
Body protection		for the body should be selected based on the task being d and should be approved by a specialist before
Other skin protection		dditional skin protection measures should be selected ned and the risks involved and should be approved by a roduct.
Respiratory protection	appropriate standard or certifica	tial for exposure, select a respirator that meets the ation. Respirators must be used according to a to ensure proper fitting, training, and other important

Section 9. Physical and chemical properties

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

Appearance

Physical state	:	Liquid.					
Color	:	Brown.					
Odor	:	Faint odd	or.				
Odor threshold	:	: Not available.					
рН	:	4.8					
Melting point/freezing point	:	Not avail	able.				
Boiling point, initial boiling point, and boiling range	:	100°C (2	212°F)				
Flash point	:	Closed c	up: >93.3	3°C (>199.9°F) [Seta	aflash] [Produc	t does not :	sustain combustion.]
Evaporation rate	:	Not avail	able.				
Flammability	:	: Not available.					
Lower and upper explosion limit/flammability limit	: Not available.						
VOC (less water, less exempt solvents)	:	₿ g/l					
Volatility	:	54.1% (v	v/w)				
Vapor pressure	:						
	Vapor Pressure at 20°CVapor pressure at 50°C					sure at 50°C	
Ingredient name	mn	n Hg	kPa	Method	mm Hg	kPa	Method
water	23.8	3	3.2				
	1		1				

R	elative vapor density	: Not av	lot available.						
R	elative density	: 1.09							
Solubility(ies)		1 · · · · · · · · · · · · · · · · · · ·							
	Media	F	lesult						
		Caluble							

	pold water hot water		Soluble	
	artition coefficient: n- ctanol/water	: 🕅	ot applicable.	
Α	uto-ignition temperature	: 🕅	ot applicable.	
D	ecomposition temperature	: 🕅	ot available.	
V	scosity	: N	ot available.	

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: 🔽 he product is stable.
Possibility of hazardous reactions	: Moder 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	: Inder 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
auminium chloride [Dry]	Skin - Severe irritant	Mouse	-	10 %	-
	Skin - Severe irritant	Pig	-	10 %	-
	Skin - Severe irritant	Rabbit	-	10 %	-

: This product may irritate eyes upon contact.

Conclusion/Summary

_		
C	kin	
- 0	K I I I	
_		

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

Eyes

Respiratory

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

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 exposure	: Routes of entry anticipated: Inhalation, Eyes. Routes of entry not anticipated: Oral, Dermal.
Potential acute health effects	
Eye contact	: This product may irritate eyes upon contact.
Inhalation	: 📈 known significant effects or critical hazards.
Skin contact	: 📈 known significant effects or critical hazards.
Ingestion	: 📈 known significant effects or critical hazards.
Symptoms related to the phys	ical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Section 11. Toxicological information

Delayed and immediate effect	cts	and also chronic effec	ts from sho	rt and long to	erm exposur	<u>.6</u>	
<u>Short term exposure</u>							
Potential immediate effects	1	Not available.					
Potential delayed effects	:	Not available.					
Long term exposure							
Potential immediate effects	1	Not available.					
Potential delayed effects	:	Not available.					
Potential chronic health eff	ect	<u>s</u>					
Not available.							
General	:	No known significant e	ffects or criti	cal hazards.			
Carcinogenicity	:	No known significant e	ffects or criti	cal hazards.			
Mutagenicity	:	No known significant e	ffects or criti	cal hazards.			
Reproductive toxicity	:	No known significant e	ffects or criti	cal hazards.			
Numerical measures of toxic	<u>ity</u> :						
Acute toxicity estimates							
Product/ingredient name			Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)

Section 12. Ecological information

Toxicity

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

3450

N/A

N/A

N/A

N/A

Persistence and degradability

Not available.

Bioaccumulative potential

auminium chloride [Dry]

Not available.

Mobility in soil

Soil/water partition coefficient (Koc) Other adverse effects

- : Not available.
 - : 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 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	N o.	No.	No.	No.	No.	No.

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
afuminium chloride [Dry]		SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1

State regulations

- Massachusetts
- : None of the components are listed.
- New York : None of the components are listed.
- New Jersey : None of the components are listed.

Section 15. Regulatory information

Pennsylvania

: None of the components are listed.

California Prop. 65

his 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

: Not determined.

United States TSCA 8(b) inventory

: All components are active or exempted.

Section 16. Other information

Procedure used to derive the classification

	Classification	Justification
Not classified.		
History		
Date of printing	: 10/27/2022	
Date of issue/Date of revision	: 10/17/2022	
Date of previous issue	: 10/17/2022	
Version	: 1	
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification IATA = International Air Transport Association IBC = International Air Transport Association	pefficient tion of Pollution From Ships, 1973
References	: Not available.	

References

Indicates information that has changed from previously issued version.

Notice to reader

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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.