# **Franklin International**

# Safety Data Sheet

**Titebond II Extend** 

### **Section 1. Identification**

GHS product identifier	: Titebond II Extend
Physical state	: <mark>K</mark> 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	: SDS@FranklinInternational.com
Reference number	: 4295
Product code	: 4134
Date of revision	: 10/17/2022
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
Identified uses	

Not applicable.

**Uses advised against** 

Not applicable.

# Section 2. Hazards identification

OSHA/HCS status	: ₩ hile this material is not considered hazardous by the OSI Standard (29 CFR 1910.1200), this SDS contains valuable safe handling and proper use of the product. This SDS sho for employees and other users of this product.	information critical to	the
Classification of the substance or mixture	: Not classified.		
GHS label elements			
Signal word	: 📈 signal word.		
Hazard statements	: No known significant effects or critical hazards.		
Precautionary statemer	<u>nts</u>		
Prevention	: Not applicable.		
Response	: Not applicable.		
Storage	: Not applicable.		
Disposal	: Not applicable.		
Date of issue/Date of revision	: 10/17/2022	Version : 1	1/9

# Section 2. Hazards identification

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	id 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. Ge medical attention if needed. 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.	ət
Skin contact	Sush 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 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.	is
Most important symptoms/e	<u>sts, acute and delayed</u>	
Potential acute health effe		
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.	
Ingestion	No known significant effects or critical hazards.	
Over-exposure signs/sym	<u>15</u>	
Eye contact	No specific data.	
Inhalation	No specific data.	
Skin contact	No specific data.	
Ingestion	No specific data.	
Indication of immediate me	l attention and special treatment needed, if necessary	
Notes to physician	n 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	$oldsymbol{\mathbb{N}}$ o 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	: $ ot\!$
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 nitrogen 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	: For 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	: <b>F</b> 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 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure lin		
Ingredient name		Exposure limits
aluminium chloride [Dry]		OSHA PEL 1989 (United States, 3/1989). Notes: as Al TWA: 2 mg/m <sup>3</sup> , (as Al) 8 hours. NIOSH REL (United States, 10/2020). Notes: as Al TWA: 2 mg/m <sup>3</sup> , (as Al) 10 hours.
Biological exposure indice	es	
No exposure indices known		
Appropriate engineering controls	: Cood general ventilation sho contaminants.	uld be sufficient to control worker exposure to airborne
Environmental exposure controls	they comply with the requiren cases, fume scrubbers, filters	work process equipment should be checked to ensure nents of environmental protection legislation. In some s or engineering modifications to the process equipment missions to acceptable levels.
Individual protection measu	ires	
Hygiene measures	eating, smoking and using th Appropriate techniques shou	ace thoroughly after handling chemical products, before e lavatory and at the end of the working period. Id be used to remove potentially contaminated clothing. before reusing. Ensure that eyewash stations and safety kstation location.
Eye/face protection	assessment indicates this is gases or dusts. If contact is	th an approved standard should be used when a risk necessary to avoid exposure to liquid splashes, mists, possible, the following protection should be worn, unless nigher degree of protection: safety glasses with side-
Skin protection		
Hand protection		us gloves complying with an approved standard should be ng chemical products if a risk assessment indicates this is
Body protection		nt for the body should be selected based on the task being lved and should be approved by a specialist before
Other skin protection		y additional skin protection measures should be selected ormed and the risks involved and should be approved by a s product.
Respiratory protection	appropriate standard or certif	ential for exposure, select a respirator that meets the fication. Respirators must be used according to a m 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.	Liquid.				
Color	: White	to yellowish.	[Light]			
Odor	: Chara	cteristic. [Slig	ht]			
Odor threshold	: Not av	ailable.				
рН	: 3					
Melting point/freezing point	: Not av	ailable.				
Boiling point, initial boiling point, and boiling range	: 98.889	9°C (210°F)				
Flash point	: 🕅 osec	l cup: >93.3°	C (>199.9°F) [Pr	oduct does not s	ustain com	ubustion.]
Evaporation rate	: Not av					
Flammability	: Not av	: Not available.				
Lower and upper explosion limit/flammability limit	: Not av	: Not available.				
VOC (less water, less exempt solvents)	: <mark>3</mark> g/l					
Volatility	: 51% (w/w)					
Vapor pressure	:					
	Vapor Pressure at 20°C   Vapor pressure at 50°C				sure at 50°C	
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
water	23.8	3.2				

Relative vapor density	: Not avai	lable.	Į		
Relative density	: 1.11				
Solubility(ies)	:				
Media	Re	sult			

	Inoula		Rooth
	፼old water hot water		Partially soluble Partially soluble
	artition coefficient: n- ctanol/water	: 📐	ot applicable.
Α	uto-ignition temperature	: 🕨	ot applicable.
D	ecomposition temperature	: 📐	ot available.
Vi	scosity	: N	lot 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	: 🗾 nder 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
aluminium chloride [Dry]	LD50 Oral	Rat	3450 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
aluminium chloride [Dry]	Skin - Severe irritant	Mouse	-	10 %	-
	Skin - Severe irritant	Pig	-	10 %	-
	Skin - Severe irritant	Rabbit	-	10 %	-

#### Conclusion/Summary

Skin

: 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	: <b>R</b> outes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
routes of exposure	

: Moderately irritating to eyes.

<b>Potential</b>	acute	health	effects

Eye contact	: 📝his 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.
Symptoms related to the	physical, chemical and toxicological characteristics
Eye contact	: 📈 specific data.
Inhalation	: 📈 specific data.
Skin contact	: 📈 specific data.
Ingestion	: No specific data.

# Section 11. Toxicological information

Delayed and immediate effect	Delayed and immediate effects 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.					
Long term exposure						
Potential immediate effects	: Not available.					
Potential delayed effects	: Not available.					
Potential chronic health effe	ects					
Not available.						
General	: No known significant	effects or criti	cal hazards.			
Carcinogenicity	: No known significant effects or critical hazards.					
Mutagenicity	: No known significant effects or critical hazards.					
Reproductive toxicity	: No known significant effects or critical 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)
aiuminium chloride [Dry]		3450	N/A	N/A	N/A	N/A

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
auminium 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

#### Persistence and degradability

Not available.

**Bioaccumulative potential** 

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	<b>N</b> o.	No.	No.	No.	No.	<b>N</b> o.

### 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** : Mone 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		I
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 IBC = International Maritime Dangerous Goods LogPow = Iogarithm of the octanol/water partition co MARPOL = International Convention for the Prevent as modified by the Protocol of 1978. ("Marpol" = ma UN = United Nations	befficient tion of Pollution From Ships, 1973
References	: Not available.	

#### References

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.