

Trade name: ArmaFlex WB Finish

Current version : 2.0.0, issued: 24.02.2022

Replaced version: 1.1.2, issued: 14.12.2021

Region: USA

## SECTION 1: Identification

### 1.1 Product identifier

Trade name

**ArmaFlex WB Finish**

### 1.2 Recommended use of the chemical and restrictions on use

**Recommended use of the chemical and restrictions on use**

Elastomeric coating

**Restrictions on use**

No data available.

### 1.3 Details of the supplier of the safety data sheet

**Address**

Armacell LLC  
55 Vilcom Center Drive  
Suite 200  
Chapel Hill, NC 27514

Telephone no. +1 800 866 5638

e-mail info.sds.ai.usmca@armacell.com

### 1.4 Emergency phone number

Armacell LLC  
+1 919 304 3846

## SECTION 2: Hazard(s) identification

### 2.1 Classification of the chemical

**Classification of the chemical in accordance with paragraph (d) of 29 CFR § 1910.1200 "Hazard Communication"**

Carcinogenicity - Category 2

Specific Target Organ Toxicity - Repeated or Prolonged Exposure - Category 2

**Classification of the chemical with regard to hazards for the aquatic environment in accordance with the UN GHS criteria relevant for dangerous goods transport classification**

Aquatic Chronic - Category 2

### 2.2 Label elements

**Pictogram(s)**



**Signal word**

Warning

**Hazard Statement(s)**

Health hazards

Suspected of causing cancer if inhaled.

May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statement(s)**

Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breath dust/ mist.

Wear protective gloves/protective clothing/eye protection/face protection.

Response

If exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Storage

Store locked up.

Disposal

Dispose of contents/container to a facility in accordance with local and national regulations.

Trade name: ArmaFlex WB Finish

Current version : 2.0.0, issued: 24.02.2022

Replaced version: 1.1.2, issued: 14.12.2021

Region: USA

### 2.3 Labelling information

No data available

### 2.4 Hazards not otherwise classified (HNOC)

No data available

## SECTION 3: Composition / information on ingredients

### 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

#### Hazardous ingredients

No	Substance name	Concentration	%
	CAS no.		
1	titanium dioxide		
	13463-67-7	>= 10.00 - < 25.00	%-b.w.
2	zinc oxide		
	1314-13-2	>= 5.00 - < 10.00	%-b.w.
3	benzophenone		
	119-61-9	< 2.50	%-b.w.

### 3.3 Other information

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of 29 CFR 1910.1200

## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

#### General information

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.

#### After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air.

#### After skin contact

In case of contact with skin wash off with water.

#### After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

#### After ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

### 4.2 Most important symptoms and effects, both acute and delayed

No data available.

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide; Dry chemical extinguisher; Alcohol-resistant foam

#### Unsuitable extinguishing media

Full water jet

### 5.2 Specific hazards arising from the chemical

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>)

Trade name: ArmaFlex WB Finish

Current version : 2.0.0, issued: 24.02.2022

Replaced version: 1.1.2, issued: 14.12.2021

Region: USA

### 5.3 Special protective equipment and precautions for fire-fighters

Use self-contained breathing apparatus. Wear protective clothing. Closed containers may rupture when exposed to extreme heat.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8.

#### For emergency responders

Personal protective equipment (PPE) - see Section 8.

### 6.2 Methods and materials for containment and cleaning up

Collect mechanically. When collected, handle material as described under the section heading "Disposal considerations". Avoid raising dust.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Precautions for safe handling

Risks inherent to handling the product must be minimised by applying appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

#### General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale dust. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from temperatures over 50°C.

#### Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original.

#### Incompatible products

Substances to be avoided: see chapter 10.

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

#### Occupational exposure limit(s)

No	Substance name	CAS no.
1	Nepheline syenite	37244-96-5
<b>ACGIH Threshold Limit Values</b>		
Aluminum metal and insoluble compounds		
	TWA	1 (R) mg/m <sup>3</sup>
	Skin resorption / sensibilisation	
	Remarks	A4
2	titanium dioxide	13463-67-7
<b>ACGIH Threshold Limit Values</b>		
Titanium dioxide		
	TWA	10 mg/m <sup>3</sup>
	Remarks	A4
<b>OSHA Permissible Exposure Limits (PELS)</b>		
Titanium dioxide Total dust		
	TWA	15 mg/m <sup>3</sup>

Trade name: ArmaFlex WB Finish

Current version : 2.0.0, issued: 24.02.2022

Replaced version: 1.1.2, issued: 14.12.2021

Region: USA

3		zinc oxide		1314-13-2	
<b>ACGIH Threshold Limit Values</b>					
Zinc oxide					
	STEL	10 (R)		mg/m <sup>3</sup>	
	TWA	2 (R)		mg/m <sup>3</sup>	
<b>OSHA Permissible Exposure Limits (PELS)</b>					
Zinc oxide fume					
	TWA	5		mg/m <sup>3</sup>	
<b>OSHA Permissible Exposure Limits (PELS)</b>					
Zinc oxide Total dust					
	TWA	15		mg/m <sup>3</sup>	
<b>OSHA Permissible Exposure Limits (PELS)</b>					
Zinc oxide Respirable fraction					
	TWA	5		mg/m <sup>3</sup>	

## 8.2 Exposure controls

### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the PEL (=Permissible Exposure Limit), suitable respiratory protection must be worn.

### Individual protection measures, such as personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event that workplace threshold values are not specified.

#### Eye / face protection

Safety glasses with side protection shield

#### Hand protection

Sufficient protection is given wearing suitable protective gloves in the event of risk of skin contact with the product. Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

#### Other protection measures

Chemical-resistant work clothes.

## SECTION 9: Physical and chemical properties

<b>Form/Color</b>	
liquid	
<b>Odor</b>	
slightly like ammonia	
<b>Odor threshold</b>	
No data available	
<b>pH value</b>	
Value	8.5 - 10
Source	supplier
<b>Boiling point / boiling range</b>	
Value	100 °C
Source	supplier
Value	212 °F
<b>Melting point / melting range</b>	
Value	0 °C
Source	supplier
Value	32 °F

Trade name: ArmaFlex WB Finish

Current version : 2.0.0, issued: 24.02.2022

Replaced version: 1.1.2, issued: 14.12.2021

Region: USA

<b>Decomposition point / decomposition range</b>	
No data available	
<b>Flash point</b>	
No data available	
<b>Auto-ignition temperature</b>	
No data available	
<b>Oxidising properties</b>	
No data available	
<b>Explosive properties</b>	
No data available	
<b>Flammability</b>	
No data available	
<b>Lower flammability or explosive limits</b>	
No data available	
<b>Upper flammability or explosive limits</b>	
No data available	
<b>Vapor pressure</b>	
No data available	
<b>Vapor density</b>	
No data available	
<b>Evaporation rate</b>	
No data available	
<b>Relative density</b>	
No data available	
<b>Density</b>	
Value	1.34 g/cm <sup>3</sup>
Source	supplier
<b>Solubility in water</b>	
No data available	
<b>Solubility(ies)</b>	
No data available	
<b>Partition coefficient: n-octanol/water</b>	
No data available	
<b>Viscosity</b>	
Value	100 - 130 KU
Source	supplier
<b>Other information</b>	
<b>Other information</b>	
No data available.	

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions(See section 7).

### 10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

**Trade name:** ArmaFlex WB Finish

**Current version :** 2.0.0, issued: 24.02.2022

**Replaced version:** 1.1.2, issued: 14.12.2021

**Region:** USA

**10.4 Conditions to avoid**

Heat, open flames and other sources of ignition.

**10.5 Incompatible materials**

strong oxidising agents

**10.6 Hazardous decomposition products**

No data available.

**SECTION 11: Toxicological information**
**Information on toxicological effects**
**Acute oral toxicity**

No data available

**Acute dermal toxicity**

No data available

**Acute inhalational toxicity**

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/irritation**

No data available

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Reproduction toxicity**

No data available

**Carcinogenicity**

No data available

**NTP Report on Carcinogens (RoC)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed "known" (to be a human carcinogen) or "RAHC" (reasonably anticipated to be a human carcinogen).

**OSHA Standards listing cancer as a health effect (Table VII.6.2)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed as carcinogenic.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans**

The product contains following substance(s) classified by the IARC Monographs

No	Substance name	CAS no.	Group
1	benzophenone	119-61-9	2B
2	titanium dioxide	13463-67-7	2B

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Aspiration hazard**

No data available

**SECTION 12: Ecological information**

Trade name: ArmaFlex WB Finish

Current version : 2.0.0, issued: 24.02.2022

Replaced version: 1.1.2, issued: 14.12.2021

Region: USA

## 12.1 Toxicity

### Toxicity to fish (acute)

No data available

### Toxicity to fish (chronic)

No data available

### Toxicity to Daphnia (acute)

No data available

### Toxicity to Daphnia (chronic)

No data available

### Toxicity to algae (acute)

No data available

### Toxicity to algae (chronic)

No data available

## 12.2 Persistence and degradability

No data available.

## 12.3 Bioaccumulative potential

No data available.

## 12.4 Mobility in soil

No data available.

## 12.5 Other adverse effects

No data available.

## 12.6 Other information

### Other information

Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Disposal considerations

#### Product

Dispose in accordance with federal, state and local regulations.

#### Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in accordance with federal, state and local regulations.

## SECTION 14: Transport information

### 14.1 US DOT (Department of Transportation)

Transport hazard class	9
Packaging group	III
UN/NA number	UN3077
UN proper shipping name	Environmentally hazardous substances, solid, n.o.s
Label code(s)	9
Danger releasing substance	zinc oxide

### 14.2 Transport IMDG

Class	9
Packaging group	III
UN number	UN3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Danger releasing substance	zinc oxide
EmS	F-A, S-F
Label	9

**Trade name:** ArmaFlex WB Finish

**Current version :** 2.0.0, issued: 24.02.2022

**Replaced version:** 1.1.2, issued: 14.12.2021

**Region:** USA

Marine pollutant mark                      Symbol "fish and tree"

### 14.3 Transport ICAO-TI / IATA

Class	9
Packaging group	III
UN number	UN3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Danger releasing substance	zinc oxide
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

### 14.4 Other information

No data available.

### 14.5 Environmental hazards

Information on environmental hazards, if relevant, pls. see 14.1 - 14.3.

### 14.6 Special precautions for user

No data available.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

## SECTION 15: Regulatory information

### 15.1 US Federal Regulations

#### Toxic Substances Control Act (TSCA)

According to the data available and/or specifications supplied by upstream suppliers, all components of this product are on the TSCA Inventory or are exempted from notification requirements.

#### CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)

The product contains following substance(s) that are considered being subject to Table 302.4 "List of Hazardous Substances and Reportable Quantities"

No	Substance name	CAS no.
1	zinc oxide	1314-13-2

#### Clean Air Act (CAA): Hazardous Air Pollutants (HAPS)

The product contains following substance(s) that are considered being "Hazardous Air Pollutants".

No	Substance name	CAS no.
1	zinc oxide	1314-13-2

#### Clean Water Act (CWA) Section 307 (Toxic Pollutants) and Section 311 (Hazardous Substances)

The product contains following substance(s) that are considered to be "Hazardous Substances".

No	Substance name	CAS no.
1	zinc oxide	1314-13-2

#### EPCRA SARA Section 313, Toxic Chemical Release Inventory

The product contains following substance(s) that are considered being subject to "SARA Reporting".

No	Substance name	CAS no.
1	zinc oxide	1314-13-2

#### Emergency Planning & Community Right-to-Know Act (EPCRA) - Sections 302 and 304

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being subject to reporting requirements.

#### Clean Air Act (CAA) - Section 602 Ozone depleting substances

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed as ozone depleting substance.

### 15.2 US State Regulations

#### Pennsylvania State Right to Know Hazardous Substance List

The product contains following substance(s) that are considered to be "Hazardous Substances".



**Trade name:** ArmaFlex WB Finish

**Current version :** 2.0.0, issued: 24.02.2022

**Replaced version:** 1.1.2, issued: 14.12.2021

**Region:** USA

No	Substance name	CAS no.
1	propane-1,2-diol	57-55-6
2	titanium dioxide	13463-67-7
3	zinc oxide	1314-13-2

#### New Jersey State Right to Know Hazardous Substance List

The product contains following substance(s) that are considered to be "Hazardous Substances".

No	Substance name	CAS no.
1	propane-1,2-diol	57-55-6
2	titanium dioxide	13463-67-7
3	zinc oxide	1314-13-2

#### Massachusetts State Right to Know Hazardous Substance List

The product contains following substance(s) that are considered to be "Hazardous Substances".

No	Substance name	CAS no.
1	zinc oxide	1314-13-2

#### California Code of Regulations Title 8 §339, Hazardous Substances List

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered to be "Hazardous Substances".

#### Right to Know - California State - Proposition 65

The product contains following substance(s) that are considered to be "Hazardous Substances".

No	Substance name	CAS no.	type of toxicity
1	benzophenone	119-61-9	cancer
2	titanium dioxide	13463-67-7	cancer

### 15.3 Further regulations

According to the information available to the supplier of the data sheet, this product contains no ingredients listed in the Red List of the Living Building Challenge.

## SECTION 16: Other information, including date of preparation or last revision

### 16.1 Other information

No data available.

### 16.2 Date of preparation/revision of the SDS

Current version	2.0.0	24.02.2022
Replaced version	1.1.2	14.12.2021

### 16.3 Department issuing safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: [umco@umco.de](mailto:umco@umco.de)

### 16.4 Conclusions

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not, however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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Prod-ID 771358

### 16.5 Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists

ATE - Acute Toxicity Estimate

BOD - Biochemical Oxygen Demand

CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania

CAS - Chemical Abstracts Service

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

**Trade name:** ArmaFlex WB Finish

**Current version :** 2.0.0, issued: 24.02.2022

**Replaced version:** 1.1.2, issued: 14.12.2021

**Region:** USA

CFR - Code of Federal Regulations (US)  
CLP - Classification, Labelling, and Packaging  
DOT - Department of Transportation Commission  
ECHA – European Chemicals Agency  
EC / EL – Effective Concentration / Effective Loading  
EPA - Environmental Protection Agency  
IARC - International Agency for Research on Cancer  
IATA - International Air Transport Association  
IBC – Intermediate Bulk Container  
ICAO - International Civil Aviation Organization  
IDL - Ingredient Disclosure List  
IDLH - Immediately Dangerous to Life and Health  
IMDG - International Maritime Dangerous Goods  
IUCLID - International Uniform Chemical Information Database  
Kow - Octanol/water partition coefficient  
LD/LC - Lethal Dose/ Lethal Concentration  
MARPOL – Marine Pollution  
MEL - Maximum Exposure Limits  
NFPA - National Fire Protection Agency  
NIOSH - National Institute for Occupational Safety and Health  
NJTSR - New Jersey Trade Secret Registry  
NOEL/NOEC – No Observed Effect Level / No Observed Effect Concentration  
NTP - National Toxicology Program  
OSHA - Occupational Safety and Health Administration  
PEL- Permissible Exposure Limit  
RCRA - Resource Conservation and Recovery Act  
SARA - Superfund Amendments and Reauthorization Act  
STEL - Short-term Exposure Limit  
STOT – Specific Target Organ Toxicity  
TDG - Transportation of Dangerous Goods  
TLV - Threshold Limit Value  
TSCA - Toxic Substances Control Act  
TWA - Time Weighted Average  
UN/NA - United Nations /North American  
US - United States  
VLE - Exposure Limit Value (Mexico)  
VOC – Volatile Organic Compounds