

Trade name: ArmaFlex Series (NBR/PVC)

Current version : 4.0.0, issued: 24.02.2022

Replaced version: 3.0.3, issued: 14.12.2021

Region: USA

## **SECTION 1: Identification**

- 1.1 Product identifier
  - Trade name

## ArmaFlex Series (NBR/PVC)

- **AP ArmaFlex**
- **AC Accoflex**
- **AP ArmaFlex White**
- **AP Coilflex**
- **AP Spiralflex**
- **AP ArmaFlex Insulation Tape**
- **ArmaFlex Coil**
- ArmaTuff
- **OE ArmaFlex (OET and OER)**
- **Proflex**

## **AP ArmaFlex Duct Liner**

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

**Recommended use of the chemical and restrictions on use** Industrial Use Professional use

**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 information**

This product is an article in the sense of the definition according to CFR (Code of Federal Regulations), Title 29, §1910.1200 "Hazard Communication" and is not subject to the labelling obligations thereof.

## 2.2 Label elements

Not relevant

- 2.3 Labelling information No data available
- 2.4 Hazards not otherwise classified (HNOC)



## Trade name: ArmaFlex Series (NBR/PVC)

Current version : 4.0.0, issued: 24.02.2022

Replaced version: 3.0.3, issued: 14.12.2021

Region: USA

#### 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

This product does not contain substances to be mentioned in accordance with paragraph (d) of 29 CFR § 1910.1200 "Hazard Communication".

### **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

Water spray jet; Dry chemical extinguisher; Foam; Carbon dioxide

#### 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 (CO2)
- 5.3 Special protective equipment and precautions for fire-fighters Use self-contained breathing apparatus. Wear protective clothing. Run-off water from fire fighting must not be discharged into drains or enter surface water.

## 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

# **Trade name:** ArmaFlex Series (NBR/PVC)

Current version : 4.0.0, issued: 24.02.2022

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Region: USA

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

Safety Data Sheet

#### **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.

#### 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

No parameters available for monitoring.

#### 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**

Form/Color	
Foam material	
black; white	
Odor	
No data available	



Safety Data Sheet

# Trade name: ArmaFlex Series (NBR/PVC)

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Replaced version: 3.0.3, issued: 14.12.2021

Region: USA

Odor threshold No data available	
pH value No data available	
Boiling point / boiling range No data available	
Melting point / melting range No data available	
Decomposition point / decomposition range	
No data available	
Flash point	
No data available	
Auto-ignition temperature	
No data available	
Oxidising properties	
No data available	
Explosive properties	
No data available	
Flammability	
No data available	
Lower flammability or explosive limits	
No data available	
Upper flammability or explosive limits No data available	
Vapor pressure No data available	
Vapor density No data available	
Evaporation rate	
No data available	
Relative density	
No data available	
Density	
No data available	
Solubility in water	
No data available	
Solubility(ies)	
No data available	
Partition coefficient: n-octanol/water	
No data available	
Viscosity	
No data available	
Other information	
Other information	
No data available.	

No data available.

**SECTION 10: Stability and reactivity** 



## Trade name: ArmaFlex Series (NBR/PVC)

Current version : 4.0.0, issued: 24.02.2022

Replaced version: 3.0.3, issued: 14.12.2021

Region: USA

10.1 Reactivity

2

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Hematite (Fe2O3)

Polyvinyl chloride

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.
- **10.4 Conditions to avoid** No data available.
- **10.5** Incompatible materials No data available.
- **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 Carbon Black 1333-86-4 2B 1

1317-60-8

9002-86-2

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3



## Trade name: ArmaFlex Series (NBR/PVC)

Current version : 4.0.0, issued: 24.02.2022

Replaced version: 3.0.3, issued: 14.12.2021

Region: USA

# STOT - single exposure No data available

#### STOT - repeated exposure No data available

Aspiration hazard

No data available

## **SECTION 12: Ecological information**

#### 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 Daphnia (chronic)

 No data available

 Toxicity to Daphnia (chronic)

 No data available

 Toxicity to algae (acute)

 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. Do not discharge into drains or waters and do not dispose of in public landfills.

## **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)

The product is not subject to DOT regulations.

#### 14.2 Transport IMDG

The product is not subject to IMDG regulations.



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Replaced version: 3.0.3, issued: 14.12.2021

Region: USA

Current	t version : 4.0.0, issued: 24.02.2022	Replaced version: 3.0.3, issued: 14.12.2021	Region: USA		
14.3	Transport ICAO-TI / IATA The product is not subject to ICAO-TI / IATA regulations.				
14.4	Other information No data available.				
14.5	<b>Environmental hazards</b> Information on environmental hazards, if relevant, pls. see 14.1 - 14.3.				
14.6	Special precautions for user No data available.				
14.7	7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not relevant				
SEC	TION 15: Regulatory information				
15.1	US Federal Regulations				
То	xic Substances Control Act (TSCA)				
		fications supplied by upstream suppliers, all components c	of this product		
	e on the TSCA Inventory or are exempted		1		
	<b>,</b> , , , , , , , , , , , , , , , , , ,	I			
		Response, Compensation and Liability Act)			
		that are considered being subject to Table 302.4 "List of H	lazardous		
Su	bstances and Reportable Quantities"				
No	Substance name	CAS no.			
1	zinc oxide	1314-13-2			
	Clean Air Act (CAA): Hazardous Air Pollutants (HAPS)				
		that are considered being "Hazardous Air Pollutants".			
-	Substance name	CAS no.			
1	zinc oxide	1314-13-2			
CL	ean Water Act (CWA) Section 307 (Toxi	c Pollutants) and Section 311 (Hazardous Substances)			
		that are considered to be "Hazardous Substances".			
	<b>č</b> (7				
	Substance name	CAS no.			
1	zinc oxide	1314-13-2			
EF	CRA SARA Section 313, Toxic Chemica	al Release Inventory			
Th	e product contains following substance(s)	that are considered being subject to "SARA Reporting".			
	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				
an	any substance(s) that are considered being subject to reporting requirements.				
CI	ean Air Act (CAA) - Section 602 Ozone	depleting substances			
	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	15.2 US State Regulations				
	ennsylvania State Right to Know Hazar				
Th	e product contains following substance(s)	that are considered to be "Hazardous Substances".			
No	Substance name	CAS no.			
1	Carbon Black	1333-86-4			

No	Substance name	CAS no.
The product contains following substance(s) that are considered to be "Hazardous Substances".		
New Jersey State Right to Know Hazardous Substance List		
3	zinc oxide	1314-13-2
2	Limestone	1317-65-3
1	Carbon Black	1333-86-4



Safety Data Sheet

## Trade name: ArmaFlex Series (NBR/PVC)

Current version : 4.0.0, issued: 24.02.2022

Replaced version: 3.0.3, issued: 14.12.2021

Region: USA

_	Oach an Black		
1	Carbon Black	1333-86-4	
2	Limestone	1317-65-3	
3	Polyvinyl chloride	9002-86-2	
4	zinc oxide	1314-13-2	
Ma	ssachusetts State Right to Know	v 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			
Acc	cording to the data available and/or	r 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	

No	Substance name	CAS no.	type of toxicity
1	Carbon Black	1333-86-4	cancer

## 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	4.0.0	24.02.2022
Replaced version	3.0.3	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

#### 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 769695

#### 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 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

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Region: USA

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