

Trade name: ArmaFlex Series (EPDM)

Current version : 3.1.0, issued: 28.02.2023

Replaced version: 3.0.0, issued: 24.02.2022

Region: USA

SECTION 1: Identification

1.1 Product identifier

Trade name

ArmaFlex Series (EPDM)

ArmaFlex UT

AP ArmaFlex FS

AP ArmaFlex FS Duct Liner

AP ArmaFlex Pipe Insulation in 1 1/2" and 2" wall thickness

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)

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".

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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; Carbon dioxide; Dry chemical extinguisher; 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 (CO₂)

5.3 Special protective equipment and precautions for fire-fighters

Use self-contained breathing apparatus. Wear protective clothing.

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

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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

Odor

No data available

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

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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.

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.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

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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								
<table border="1"> <thead> <tr> <th>No</th> <th>Substance name</th> <th>CAS no.</th> <th>Group</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Carbon Black</td> <td>1333-86-4</td> <td>2B</td> </tr> </tbody> </table>	No	Substance name	CAS no.	Group	1	Carbon Black	1333-86-4	2B
No	Substance name	CAS no.	Group					
1	Carbon Black	1333-86-4	2B					
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)

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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)

The product is not subject to DOT regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

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 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

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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".			
No	Substance name	CAS no.	
1	Carbon Black	1333-86-4	
2	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	Carbon Black	1333-86-4	
2	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	Carbon Black	1333-86-4	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.



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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	3.1.0	28.02.2023
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16.3 Department issuing safety data sheet

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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 769700

16.5 Key / Legend

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5E - indicates a substance that is the subject of a TSCA section 5(e) order
5F - indicates a substance that is the subject of a TSCA section 5(f) rule
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
IMDG - International Maritime Dangerous Goods
IUCRID - 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
PMN - indicates a commenced Pre Manufacture Notice substance
RCRA - Resource Conservation and Recovery Act
S - indicates a substance that is identified in a final Significant New Use Rule
SARA - Superfund Amendments and Reauthorization Act
SP - indicates a substance that is identified in a proposed Significant New Use Rule
STEL - Short-term Exposure Limit
STOT – Specific Target Organ Toxicity
T - indicates a substance that is the subject of a final TSCA section 4 test rule or order
TDG - Transportation of Dangerous Goods
TLV - Threshold Limit Value
TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule or order
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
XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule