

Trade name: ArmaFlex 520 Contact Adhesive

Current version : 4.0.0, issued: 13.09.2024

Replaced version: 3.1.0, issued: 30.01.2024

Region: USA

SECTION 1: Identification

1.1 Product identifier

Trade name

ArmaFlex 520 Contact Adhesive

1.2 Recommended use of the chemical and restrictions on use

Recommended use of the chemical and restrictions on use

Adhesive for processing all flexible Armaflex insulation materials
For industrial and professional use only

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. +1 919-304-8907
e-mail info.sds.ai.usmca@armacell.com

1.4 Emergency phone number

Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
+1 703-527-3887/1-800-424-9300
Within Mexico Only: 800-681-9531
CHEMTREC Customer #: 1015657

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"

Eye Irritation - Category 2A
Flammable Liquids - Category 2
Reproductive Toxicity - Category 2
Skin Corrosion / Irritation - Category 2
Skin sensitization - Category 1
Specific Target Organ Toxicity - Repeated or Prolonged Exposure - Category 2
Specific Target Organ Toxicity - Single Exposure - narcotic effects - Category 3

Classification of the chemical with regard to hazards for the aquatic environment in accordance with the UN GHS criteria

Aquatic Chronic - Category 2

2.2 Label elements

Pictogram(s)



Signal word
Danger

Hazard Statement(s)
Physical hazards

Highly flammable liquid and vapor

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Health hazards

Causes skin irritation
 May cause an allergic skin reaction
 Causes serious eye irritation
 May cause drowsiness or dizziness
 Suspected of damaging fertility or the unborn child.
 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.
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Keep container tightly closed.
 Ground/bond container and receiving equipment
 Use explosion-proof electrical/ventilating/ lighting/equipment.
 Use non-sparking tools.
 Take precautionary measures against static discharge.
 Avoid breathing mist/vapours/spray.
 Wash thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Contaminated work clothing must not be allowed out of the workplace.

Response

Wear protective gloves/protective clothing/eye protection/face protection.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 If inhaled: Remove person to fresh air and keep comfortable for breathing.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If exposed or concerned: Get medical advice/attention.
 Call a poison center/doctor if you feel unwell.
 Get medical advice/attention if you feel unwell.
 Specific treatment (see first aid instruction on this label).
 If skin irritation occurs: Get medical advice/attention.
 Take off contaminated clothing and wash it before reuse.
 Wash contaminated clothing before reuse.
 In case of fire: Use carbon dioxide (CO₂), alcohol resistant foam, extinguishing powder, water mist to extinguish.

Storage

Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 Store locked up.

Disposal

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

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	ACETONE		
	67-64-1	>= 25.00 - < 50.00	%-b.w.
2	toluene		
	108-88-3	>= 25.00 - < 50.00	%-b.w.
3	n-hexane		
	110-54-3	>= 25.00 - < 50.00	%-b.w.
4	Formaldehyde, polymer with 4-(1,1-dimethylethyl)phenol		

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25085-50-1	>= 5.00	- < 10.00	%-b.w.
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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

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

After inhalation

When inhaled remove to fresh air and seek medical aid.

After skin contact

When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

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). Get immediate ophthalmic treatment.

After ingestion

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

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

Headache; Dizziness; Drowsiness; Nausea; Vomiting

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures
5.1 Extinguishing media
Suitable extinguishing media

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

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 dioxide (CO₂); Carbon monoxide (CO); Nitrogen oxides (NO_x); Hydrogen cyanide (HCN); Hydrogen chloride (HCl)

5.3 Special protective equipment and precautions for fire-fighters

Use self-contained breathing apparatus. Wear full protective suit. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Containers close to fire should be transferred to a safe place.

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. Exclude sources of ignition and ventilate the area. Do not inhale vapours. Remove persons to safety. Ensure adequate ventilation.

For emergency responders

Personal protective equipment (PPE) - see Section 8.

6.2 Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in suitable container for disposal.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). 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. If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. For personal protection see section 8.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Remove soiled or soaked clothing immediately. Avoid contact with eyes and skin. Do not inhale vapours. Provide eye wash fountain in work area. Hold emergency shower available.

Advice on protection against fire and explosion

Keep away from sources of ignition - refrain from smoking. No sparking tools should be used. Vapours can form an explosive mixture with air. Take precautionary measures against electrostatic loading (earthing necessary during loading operations).

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place. Protect from heat and direct sunlight.

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

Do not store together with: Acids; Bases; Oxidizing agents; Do not store with combustible materials.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limit(s)

No	Substance name	CAS no.
1	ACETONE	67-64-1
ACGIH Threshold Limit Values		
Acetone		
	STEL	500 ppm
	TWA	250 ppm
	Remarks	A4; BEI
OSHA Permissible Exposure Limits (PELS)		
Acetone		
	TWA	2400 mg/m ³ 1000 ppm
2	toluene	108-88-3
OSHA Permissible Exposure Limits (PELS)		
Toluene		
	TWA	200 ppm
	Ceiling Limit	300 ppm
	Remarks	Z37.12-1967. See Z-2
ACGIH Threshold Limit Values		
Toluene		
	TWA	20 ppm
	Skin resorption / sensibilisation	
	Remarks	OTO; A4; BEI
3	n-hexane	110-54-3
ACGIH Threshold Limit Values		
n-Hexane		
	TWA	50 ppm

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Remarks	Skin; BEI			
OSHA Permissible Exposure Limits (PELS)				
n-Hexane				
TWA	1800	mg/m ³	500	ppm

8.2 Exposure controls

Appropriate engineering controls

Provide good ventilation of working area (local exhaust ventilation if necessary).

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 aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respirator AX

Eye / face protection

No data available.

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.

Appropriate Material	butyl rubber		
Material thickness	>	0.7	mm
Inappropriate material	nitrile rubber		
Inappropriate material	PVC		
Inappropriate material	viton		
Inappropriate material	Natural rubber, NR		

Other protection measures

fire-resistant antistatic protective clothing

SECTION 9: Physical and chemical properties

Form/Color	
liquid	
greenish yellow	
Odor	
like solvents	
Odor threshold	
No data available	
pH value	
No data available	
Boiling point / boiling range	
Value	> 56.5 °C
Source	supplier
Melting point / melting range	
No data available	
Decomposition point / decomposition range	
No data available	
Flash point	
Value	-26 °C
Method	Setaflash closed cup
Source	supplier
Auto-ignition temperature	

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Value	235	°C
Source	supplier	

Oxidising properties
No data available

Explosive properties
No data available

Flammability	
Not applicable	
Source	supplier

Lower flammability or explosive limits
No data available

Upper flammability or explosive limits
No data available

Vapor pressure		
Value	180	mm Hg
Reference temperature	20	°C
Source	supplier	

Vapor density
No data available

Evaporation rate
No data available

Relative density		
Value	appr.	0.83
Source	supplier	

Density
No data available

Solubility in water	
Source	supplier
Remarks	immiscible

Solubility(ies)
No data available

Partition coefficient: n-octanol/water
No data available

Viscosity			
Value	>	1000	mm ² /s
Reference temperature		40	°C
Type	kinematic		
Source	supplier		

Solids content			
Value	appr.	19	%

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).

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10.3 Possibility of hazardous reactions

None, when used as directed.

10.4 Conditions to avoid

Heat, open flames and other sources of ignition.

10.5 Incompatible materials

strong acids; strong bases; strong oxidising agents; combustible materials

10.6 Hazardous decomposition products

None, if handled according to intended use. In case of fire: see section 5 .

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	Substance name	CAS no.
1	toluene	108-88-3

Species	rabbit
Method	EU B.4
Source	ECHA
Evaluation	irritant

Serious eye damage/irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Reproduction toxicity

No	Substance name	CAS no.
1	toluene	108-88-3

Route of exposure	inhalational
Species	rats (male/female)
Method	Value taken from the literature
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are met.

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

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No	Substance name	CAS no.	Group
1	toluene	108-88-3	3

STOT - single exposure

No data available

STOT - repeated exposure

No	Substance name	CAS no.
1	toluene	108-88-3
Route of exposure		inhalative, oral
Species		rats (male/female)
Method		EU Method B.26
Source		ECHA
Evaluation/classification		Based on available data, the classification criteria are met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	
1	toluene	108-88-3	
LC50		5.5	mg/l
Duration of exposure		96	h
Species		Oncorhynchus kisutch	
Method		Value taken from the literature	
Source		ECHA	

Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	
1	toluene	108-88-3	
EC50		3.78	mg/l
Duration of exposure		48	h
Species		Daphnia magna	
Method		US EPA 600/4-91-003	
Source		ECHA	

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)			
No	Substance name	CAS no.	
1	toluene	108-88-3	
EC50		134	mg/l
Duration of exposure		3	h
Species		Chlorella vulgaris	
Source		ECHA	

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

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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 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)

Transport hazard class	3
Packaging group	II
UN/NA number	UN1133
UN proper shipping name	Adhesives
Label code(s)	3
Remark(s)	49 CFR § 172.102 - Special provisions 149 When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in § 173.150(b)(2) for inner packagings may be increased to 5 L (1.3 gallons).

14.2 Transport IMDG

Class	3
Packaging group	II
UN number	UN1133
Proper shipping name	ADHESIVES
Danger releasing substance	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
EmS	F-E, S-D
Label	3
Marine pollutant mark	Symbol "fish and tree"
Remarks	For containers <= 5L/5kg transport can be carried out under exemptions (IMDG 2.10.2.7).

14.3 Transport ICAO-TI / IATA

Class	3
Packaging group	II
UN number	UN1133
Proper shipping name	Adhesives
Label	3
Remarks	For containers <= 5L/5kg transport can be carried out under exemptions (IATA 4.4, A197).

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

To be transported always in closed, upright and safe containers. Make sure that persons handling these containers are aware of the rules of conduct in case of incident or spillage.

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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 listed as active or are exempted from notification requirements.

The following substances have EPA regulatory flags in the TSCA Inventory:

No	Substance name	CAS no.	EPA TSCA Regulatory Flags
1	Formaldehyde, polymer with 4-(1,1-dimethylethyl)phenol	25085-50-1	XU

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	ACETONE	67-64-1
2	n-hexane	110-54-3
3	toluene	108-88-3

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	n-hexane	110-54-3
2	toluene	108-88-3

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	toluene	108-88-3

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	n-hexane	110-54-3
2	toluene	108-88-3

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	ACETONE	67-64-1
2	n-hexane	110-54-3
3	toluene	108-88-3

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	ACETONE	67-64-1
2	n-hexane	110-54-3

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3	toluene	108-88-3
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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	ACETONE	67-64-1
2	n-hexane	110-54-3
3	toluene	108-88-3

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

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

No	Substance name	CAS no.
1	ACETONE	67-64-1
2	n-hexane	110-54-3
3	toluene	108-88-3

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	n-hexane	110-54-3	male
2	toluene	108-88-3	developmental

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

16.1 Other information

Authors responsible for the compilation of the material 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.

The information is based on our current knowledge however it does not represent a guarantee of product properties nor does it create any legal obligation.

16.2 Date of preparation/revision of the SDS

Current version	4.0.0	13.09.2024
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16.4 Conclusions

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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Prod-ID 775657

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