

Trade name: ArmaFlex 520

Product no.: EUA

Current version: 3.0.6, issued: 09.01.2025 Replaced version: 3.0.5, issued: 22.10.2024 Region: GB

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name

## **ArmaFlex 520**

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### Relevant identified uses of the substance or mixture

Adhesive for processing all flexible Armaflex insulation materials

For industrial and professional use only

#### Uses advised against

No data available.

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

### **Address**

Armacell GmbH

Robert-Bosch-Straße 10 48153 Münster

Deutschland

Telephone no. +49 (0) 251 - 7603-200 Fax no. +49 (0) 251 - 7603-561 e-mail info.de@armacell.com

## Information provided by / telephone

Dr. Heribert Quante, Tel.: +49 (0) 251 - 7603-227

## **Advice on Safety Data Sheet**

heribert.quante@armacell.com

#### **Address**

Armacell UK Ltd Mars Street OL9 6LY Oldham United Kingdom

email: info.armaform@armacell.com

### 1.4 Emergency telephone number

For medical advice (in German and English): +49 (0)551 192 40 (Giftinformationszentrum Nord)

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

## Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Eye Irrit. 2; H319 Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H336

### **Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008: Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

### 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

### Hazard pictograms



(!)



Signal word



## MAKING A DIFFERENCE AROUND THE WORLD EU safety data sheet

Trade name: ArmaFlex 520

Product no.: EUA

Current version: 3.0.6, issued: 09.01.2025 Replaced version: 3.0.5, issued: 22.10.2024 Region: GB

Danger

## Hazardous component(s) to be indicated on label:

cyclohexane ethyl-acetate

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

phenolic resin Rosin; colophony **Hazard statement(s)** 

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing vapours/spray. P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P391 Collect spillage.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to a facility in accordance with local and national regulations.

### 2.3 Other hazards

Vapours can form an explosive mixture with air.

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

## **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		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	cyclohexane			
	110-82-7	Aquatic Acute 1; H400	0.00 - 40.00	wt%
	203-806-2	Aquatic Chronic 1; H410		
	601-017-00-1	Asp. Tox. 1; H304		
	-	Flam. Liq. 2; H225		
		Skin Irrit. 2; H315		
		STOT SE 3; H336		
2	ethyl-acetate			
	141-78-6	EUH066	20.00 - < 25.00	wt%
	205-500-4	Eye Irrit. 2; H319		
	607-022-00-5	Flam. Liq. 2; H225		
	01-2119475103-46	STOT SE 3; H336		
3	Hydrocarbons, C6-C7	, isoalkanes, cyclics, <5% n-hexane	pls. refer to footnote (2)	
	64742-49-0	Flam. Liq. 2; H225	0.00 - 40.00	wt%
	926-605-8	Asp. Tox. 1; H304		
	649-328-00-1	STOT SE 3; H336		
	01-2119486291-36	Aquatic Chronic 2; H411		
		EUH066		
4	acetone			
	67-64-1	Flam. Liq. 2; H225	10.00 - 20.00	wt%
	200-662-2	Eye Irrit. 2; H319		
	606-001-00-8	STOT SE 3; H336		
	01-2119471330-49	EUH066		
5	phenolic resin			



Trade name: ArmaFlex 520

Product no.: EUA

**Current version :** 3.0.6, issued: 09.01.2025 **Replaced version :** 3.0.5, issued: 22.10.2024 **Region :** GB

	26022-00-4 607-846-5 -	Skin Sens. 1; H317	1.00	- 10.00	wt%
6	butanone				
	78-93-3 201-159-0 606-002-00-3 01-2119457290-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	1.00	- 10.00	wt%
7	propan-2-ol				
	67-63-0 200-661-7 603-117-00-0 01-2119457558-25	Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336	1.00	- 2.50	wt%
8	Rosin; colophony				
	8050-09-7 232-475-7 650-015-00-7 01-2119480418-32	Skin Sens. 1; H317	0.10	- 1.00	wt%

Full text of H- and EUH-phrases, if not already mentioned in section 2.2: see section 16.

(2) According to the latest state of knowledge and applying the criteria set out in annex I to Regulation (EC) No 1272/2008, the aforementioned classification is required. This classification goes beyond the classification set out in table 3, Annex VI to Regulation (CE) No 1272/2008.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
3	Р	-	_	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

## **SECTION 4: First aid measures**

## 4.1 Description of 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 the 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; redness

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

### Suitable extinguishing media

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

## Unsuitable extinguishing media

High power water jet

### 5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO2); Carbon monoxide (CO); Nitrogen oxides (NOx); Hydrogen chloride (HCI); halogenated compounds

## 5.3 Advice for firefighters

## MAKING A DIFFERENCE AROUND THE WORLD EU safety data sheet

Trade name: ArmaFlex 520

Product no.: EUA

Current version: 3.0.6, issued: 09.01.2025 Replaced version: 3.0.5, issued: 22.10.2024 Region: GB

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

No data available. Personal protective equipment (PPE) - see Section 8.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case of entry into waterways, soil or drains, inform the responsible authorities.

## 6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

#### 6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

## **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

#### Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary). Risks inherent to handling the product must be minimised by applying the 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. Have 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 closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

### Incompatible products

Substances to be avoided, see section 10.

## 7.3 Specific end use(s)

No data available.

## **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

## Occupational exposure limit values

No	Substance name	CAS no.		EC no.	
1	cyclohexane	110-82-7		203-806-2	
	2006/15/EC				
	Cyclohexane				
	WEL long-term (8-hr TWA reference period)	700	mg/m³	200	ppm
	List of approved workplace exposure limits (WELs) / EH40				
	Cyclohexane				
	WEL short-term (15 min reference period)	1050	mg/m³	300	ppm
	WEL long-term (8-hr TWA reference period)	350	mg/m³	100	ppm
2	ethyl-acetate	141-78-6		205-500-4	



Trade name: ArmaFlex 520

Product no.: EUA

Current version: 3.0.6, issued: 09.01.2025 Replaced version: 3.0.5, issued: 22.10.2024 Region: GB

	2017/164/EU				
	Ethyl acetate				
	WEL short-term (15 min reference period)	1468	mg/m³	400	ppm
	WEL long-term (8-hr TWA reference period)	734	mg/m³	200	ppm
	List of approved workplace exposure limits (WELs) / EH40		J		- ' '
	Ethyl acetate				
	WEL short-term (15 min reference period)			400	ppm
	WEL long-term (8-hr TWA reference period)			200	ppm
3	acetone	67-64-1		200-662-2	
	2000/39/EC				
	Acetone				
	WEL long-term (8-hr TWA reference period)	1210	mg/m³	500	ppm
	List of approved workplace exposure limits (WELs) / EH40				
	Acetone				
	WEL short-term (15 min reference period)	3620	mg/m³	1500	ppm
	WEL long-term (8-hr TWA reference period)	1210	mg/m³	500	ppm
4	butanone	78-93-3		201-159-0	
	2000/39/EC				
	Butanone				
	WEL short-term (15 min reference period)	900	mg/m³	300	ppm
	WEL long-term (8-hr TWA reference period)	600	mg/m³	200	ppm
	List of approved workplace exposure limits (WELs) / EH40				
	Butan-2-one				
	WEL short-term (15 min reference period)	899	mg/m³	300	ppm
	WEL long-term (8-hr TWA reference period)	600	mg/m³	200	ppm
	Comments	Sk, BMGV			
5	propan-2-ol	67-63-0		200-661-7	
	List of approved workplace exposure limits (WELs) / EH40				
	Propan-2-ol	1			
	WEL short-term (15 min reference period)	1250	mg/m³	500	ppm
	WEL long-term (8-hr TWA reference period)	999	mg/m³	400	ppm
6	Rosin; colophony	8050-09-7		232-475-7	
	List of approved workplace exposure limits (WELs) / EH40				
	Rosin-based solder flux fume	1			
	WEL short-term (15 min reference period)	0.15	mg/m³		
	WEL long-term (8-hr TWA reference period)	0.05	mg/m³		
	Comments	Sen			

## **DNEL, DMEL and PNEC values**

## **DNEL** values (worker)

No	Substance name			CAS / EC no	)
	Route of exposure	Exposure time	Effect	Value	
1	ethyl-acetate			141-78-6	
				205-500-4	
	dermal	Long term (chronic)	systemic	63	mg/kg/day
	inhalative	Long term (chronic)	systemic	734	mg/m³
	inhalative	Short term (acut)	systemic	1468	mg/m³
	inhalative	Long term (chronic)	local	734	mg/m³
	inhalative	Short term (acut)	local	1468	mg/m³
2	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane			64742-49-0	
	_	-		926-605-8	
	dermal	Long term (chronic)	systemic	13964	mg/kg/day
	inhalative	Long term (chronic)	systemic	5306	mg/m³
3	acetone			67-64-1	
				200-662-2	
	dermal	Long term (chronic)	systemic	186	mg/kg/day
	inhalative	Short term (acut)	local	2420	mg/m³
	inhalative	Short term (acut)	systemic	1210	mg/m³
4	butanone			78-93-3	
				201-159-0	
	dermal	Long term (chronic)	systemic	1161	mg/kg/day
	inhalative	Long term (chronic)	systemic	600	mg/m³
	inhalative	Short term (acut)	systemic	900	mg/m³
5	propan-2-ol			67-63-0	
				200-661-7	
	dermal	Long term (chronic)	systemic	888	mg/kg/day



Trade name: ArmaFlex 520

Product no.: EUA

Current version: 3.0.6, issued: 09.01.2025 Replaced version: 3.0.5, issued: 22.10.2024 Region: GB

	inhalative	Long term (chronic)	systemic	500	mg/m³
	DNEL value (consumer)				
No	Substance name			CAS / EC n	0
	Route of exposure	Exposure time	Effect	Value	
1	ethyl-acetate			141-78-6 205-500-4	
	oral	Long term (chronic)	systemic	4.5	mg/kg/day
	dermal	Long term (chronic)	systemic	37	mg/kg/day
	inhalative	Long term (chronic)	systemic	367	mg/m³
	inhalative	Short term (acut)	systemic	734	mg/m³
	inhalative	Long term (chronic)	local	367	mg/m³
	inhalative	Short term (acut)	local	734	mg/m³
2	Hydrocarbons, C6-C7, is	soalkanes, cyclics, <5% n-hexa	ane	64742-49-0 926-605-8	
	oral	Long term (chronic)	systemic	1301	mg/kg/day
	dermal	Long term (chronic)	systemic	1377	mg/kg/day
	inhalative	Long term (chronic)	systemic	1131	mg/m³
3	acetone			67-64-1 200-662-2	
	oral	Long term (chronic)	systemic	62	mg/kg/day
	dermal	Long term (chronic)	systemic	62	mg/kg/day
	inhalative	Long term (chronic)	systemic	200	mg/m³
4	butanone			78-93-3 201-159-0	
	oral	Long term (chronic)	systemic	31	mg/kg/day
	dermal	Long term (chronic)	systemic	412	mg/kg/day
	inhalative	Long term (chronic)	systemic	106	mg/m³
	inhalative	Short term (acut)	systemic	450	mg/m³
5	propan-2-ol			67-63-0 200-661-7	
	oral	Long term (chronic)	systemic	26	mg/kg/day
	dermal	Long term (chronic)	systemic	319	mg/kg/day
	inhalative	Long term (chronic)	systemic	89	mg/m³

## PNFC values

	PNEC values					
No	Substance name		CAS / EC no			
	ecological compartment	Туре	Value			
1	ethyl-acetate		141-78-6			
			205-500-4			
	water	fresh water	0.24	mg/L		
	water	marine water	0.024	mg/L		
	water	fresh water sediment	1.15	mg/kg dry weight		
	water	marine water sediment	0.115	mg/kg dry weight		
	soil	-	0.148	mg/kg dry weight		
	sewage treatment plant	-	650	mg/L		
	secondary poisoning	-	0.2	g/kg		
	with reference to: food					
2	acetone		67-64-1			
			200-662-2			
	water	fresh water	10.6	mg/L		
	water	Aqua intermittent	21	mg/L		
	water	marine water	1.06	mg/L		
	water	fresh water sediment	30.4	mg/kg		
	water	marine water sediment	3.04	mg/kg		
	soil	-	29.5	mg/kg		
	sewage treatment plant	-	100	mg/L		
3	propan-2-ol	•	67-63-0			
			200-661-7			
	soil	-	28	mg/kg		
	sewage treatment plant	-	2251	mg/L		
	secondary poisoning	-	160	mg/kg		
	with reference to: food					

#### 8.2 **Exposure controls**

Appropriate engineering controls

Ensure adequate ventilation, local exhaust at the work station if necessary.

Personal protective equipment



Trade name: ArmaFlex 520

Product no.: EUA

Current version: 3.0.6, issued: 09.01.2025 Replaced version: 3.0.5, issued: 22.10.2024 Region: GB

#### 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

## Eye / face protection

Tightly fitting safety glasses (EN 166).

### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves 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 mm Breakthrough time 120 min

## Other

Fire-resistant antistatic protective clothing.

### **Environmental exposure controls**

No data available.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

State of aggregation			
Form			
liquid			
Colour			
white to beige			
Odour like solvents			
pH value reason for missing pH	substance/mixture is	non-nola	r/aprotic
Boiling point / boiling range	- Cabetarios/mixture it	mon pola	raprotto
Value		55	°C
Source	supplier		-
Melting point/freezing point			
No data available			
Decomposition temperature			
No data available			
Flash point			
Value Source	supplier	-15	°C
	Тапринсі		
Ignition temperature  No data available			
Auto-ignition temperature			
Value		235	°C
Source	supplier		
Flammability			
Not applicable	I		
Source	supplier		
Lower explosion limit Value		1	% vol
Source	supplier	1	70 VUI
Upper explosion limit	1		
Value		20	% vol
Source	supplier		
Vapour pressure			
No data available			



Trade name: ArmaFlex 520

Product no.: EUA

Current version: 3.0.6, issued: 09.01.2025 Replaced version: 3.0.5, issued: 22.10.2024 Region: GB

Relative density					
Value		0.85			
Source	supplier				
Density					
No data available					
Solubility in water					
Source	supplier				
Comments	immiscible				
Solubility					
No data available					
Partition coefficient n-octanol/water (lo					
No Substance name		AS no.		EC no.	
1 ethyl-acetate	1	41-78-6		205-500-4	
log Pow			0.68 25	°C	
Reference temperature Source	ECHA		25	C	
2 acetone		7-64-1		200-662-2	
log Pow			-0.23	200 002 2	
Method	QSAR				
Source	ECHA				
3 butanone	7	8-93-3	0.0	201-159-0	
log Pow Reference temperature			0.3 40	°C	
Method	OECD 117		40	C	
Source	ECHA				
4 propan-2-ol	6	7-63-0		200-661-7	
log Pow			0.05		
Reference temperature Source	ECHA		25	°C	
5 Rosin; colophony		050-09-7		232-475-7	
log Pow		030-03-1	3.01	232-413-1	
Reference temperature			20	°C	
Method	EU Method A.8				
Source	ECHA				
Kinematic viscosity					
Value	>	1000	mm²/s		
Reference temperature		40	°C		
Type	kinematic				
Source	supplier				

## 9.2 Other information

Other	information	

VOC: 78 %

## 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

None, when used as directed.

### 10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

## 10.5 Incompatible materials

No data available.

## 10.6 Hazardous decomposition products



## MAKING A DIFFERENCE AROUND THE WORLD EU safety data sheet

Trade name: ArmaFlex 520

Product no.: EUA

Current version: 3.0.6, issued: 09.01.2025 Replaced version: 3.0.5, issued: 22.10.2024 Region: GB

None if stored, handled and transported properly. In case of fire: see section 5.

## SECTION 11: Toxicological information

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute	Acute oral toxicity				
No S	Substance name	CAS n	0.	EC no.	
1 e	ethyl-acetate	141-78	3-6	205-500-4	
LD50	-	>	5600	mg/kg bodyweight	
Specie	es	rat			
Source	e	ECHA			
	acetone	67-64-	-	200-662-2	
LD50			5800	mg/kg bodyweight	
Specie		rat			
Source		ECHA			
	ation/classification		a, the classification crite		
	butanone	78-93-		201-159-0	
LD50			2054	mg/kg bodyweight	
Specie		rat			
Method		OECD 423			
Source	=	ECHA			
	ation/classification	Based on available data, the classification criteria are not met.			
	propan-2-ol	67-63-		200-661-7	
LD50			5840	mg/kg bodyweight	
Specie		rat			
Method		OECD 401			
Source	=	ECHA			
	ation/classification		a, the classification crite	ria are not met.	
5 F	Rosin; colophony	8050-0	9-7	232-475-7	
LD50		>	2000	mg/kg bodyweight	
Specie		rat			
Method	d	OECD 423			
Source		ECHA			
Evalua	ation/classification	Based on available dat	a, the classification crite	ria are not met.	

Acut	te dermal toxicity			
No	Substance name	CAS r	10.	EC no.
1	ethyl-acetate	141-7	8-6	205-500-4
LD50	)	>	20000	mg/kg bodyweight
Spec	cies	rabbit		
Sour	ce	ECHA		
2	acetone	67-64·	-1	200-662-2
LD50	)	>	15800	mg/kg bodyweight
Spec	cies	rabbit		
Sour	ce	ECHA		
Eval	uation/classification	Based on available da	Based on available data, the classification criteria are not met.	
3	Rosin; colophony	8050-	09-7	232-475-7
LD50	)	>	2000	mg/kg bodyweight
Spec	cies	rat		
Meth	nod	OECD 402		
Sour	ce	ECHA		
Eval	uation/classification	Based on available da	ta, the classification cr	iteria are not met.

Acute inhalational toxicity				
No Substance name	CAS no.		EC no.	
1 acetone	67-64-1		200-662-2	
LC50		76	mg/l	
Duration of exposure		4	h	
State of aggregation	Vapour			
Species	rat			
Source	ECHA			
Evaluation/classification	Based on available data, the classification criteria are not met.			
2 propan-2-ol	67-63-0		200-661-7	
LC50	>	10000	ppmV	
Duration of exposure		6	h	
State of aggregation	Vapour			
Species	rat			
Method	OECD 403			
Source	ECHA			



Trade name: ArmaFlex 520

Product no.: EUA

Current version: 3.0.6, issued: 09.01.2025 Replaced version: 3.0.5, issued: 22.10.2024 Region: GB

	/irritation		,		ria are not met.	
No Substanc			CAS no.		EC no.	
1 ethyl-ace			141-78-6		205-500-4	
Species		rabbit			200 000 1	
Method		OECD 404				
Source		ECHA				
Evaluation		low-irritant				
Evaluation/class	sification		ilable data, the cla	assification crite	ria are not met	
	bons, C6-C7, isoalkanes, cyclics, <5		64742-49-0		926-605-8	
Species	,,,,,,, .	rabbit	011 12 10 0		020 000 0	
Method		OECD 404				
Source		ECHA				
Evaluation		non-irritant				
Evaluation/class	sification		ilable data, the cla	assification crite	ria are not met	
3 acetone	Sindulon	- Bacca cir ava	67-64-1	de la companion de la companio	200-662-2	
Species		guinea pig	07 04 1		200 002 2	
Source		ECHA				
Evaluation		non-irritant				
Evaluation/class	sification		ilable data, the cla	secification critor	ria are not met	
butanone		I Dased Oll ava	78-93-3	accinication trite	201-159-0	
Ouration of expo			10-33-3	4	h	
Species	USUI 6	rabbit		4	II II	
Species Method		OECD 404				
		ECHA				
Source						
Evaluation	aification	non-irritant	ilabla data tha -!-	acification on!+-	ria ara not mat	
Evaluation/class		pased on ava	ilable data, the cla	assilication crite		
5 propan-2	-01		67-63-0		200-661-7	
Species		rabbit				
Source		ECHA				
Evaluation		non-irritant	9 11 1 6 2			
Evaluation/class		Based on ava	ilable data, the cla	assification crite		
Rosin; co	<u> </u>		8050-09-7		232-475-7	
Duration of expo	osure			4	h	
Species		rabbit				
Method		OECD 404				
Source		ECHA				
Evaluation		l non-irritant				
	sification		ilable data, the cla	assification crite	ria are not met.	
Evaluation/class			ilable data, the cla	assification crite	ria are not met.	
Evaluation/class Serious eye da	ımage/irritation		·	assification crite		
Evaluation/class  Serious eye da  No Substance	mage/irritation ce name		CAS no.	assification crite	EC no.	
Evaluation/class Serious eye da No Substanc I ethyl-ace	mage/irritation ce name	Based on ava	·	assification crite		
Evaluation/class  Serious eye da  No Substanc  I ethyl-ace  Species	mage/irritation ce name	Based on ava	CAS no.	assification criter	EC no.	
Serious eye da No Substance Lethyl-ace Species Method	mage/irritation ce name	rabbit OECD 405	CAS no.	assification crite	EC no.	
Serious eye da No Substance Lethyl-ace Species Method Source	mage/irritation ce name	rabbit OECD 405 ECHA	CAS no.	assification crite	EC no.	
Serious eye da No Substance Lethyl-ace Species Method Source Evaluation	mage/irritation ce name	rabbit OECD 405	CAS no. 141-78-6	assification crite	EC no. 205-500-4	
Serious eye da No Substance Species Wethod Source Evaluation 2 acetone	mage/irritation ce name	rabbit OECD 405 ECHA low-irritant	CAS no.	assification crite	EC no.	
Serious eye da No Substance Species Method Source Evaluation 2 acetone Species	mage/irritation ce name	rabbit OECD 405 ECHA low-irritant	CAS no. 141-78-6	assification crite	EC no. 205-500-4	
Serious eye da No Substance Species Method Source Evaluation 2 acetone Species Method	mage/irritation ce name	rabbit OECD 405 ECHA low-irritant  rabbit OECD 405	CAS no. 141-78-6	assification crite	EC no. 205-500-4	
Serious eye da No Substance Species Method Source Evaluation 2 acetone Species Method Source Species Method Source Species Method Source	mage/irritation ce name	rabbit OECD 405 ECHA low-irritant  rabbit OECD 405 ECHA	CAS no. 141-78-6	assification crite	EC no. 205-500-4	
Serious eye da No Substance Lethyl-ace Species Method Source Evaluation Zacetone Species Method Source Evaluation Species Method Source Evaluation	image/irritation ce name itate	rabbit OECD 405 ECHA low-irritant  rabbit OECD 405 ECHA irritant	CAS no. 141-78-6 67-64-1		EC no. 205-500-4 200-662-2	
Serious eye da No Substance Lethyl-ace Species Method Source Evaluation Species Method Source Evaluation Species Method Source Evaluation Evaluation Evaluation	image/irritation ce name state	rabbit OECD 405 ECHA low-irritant  rabbit OECD 405 ECHA irritant	CAS no. 141-78-6 67-64-1		EC no. 205-500-4 200-662-2	
Serious eye da No Substance L ethyl-ace Species Method Source Evaluation Z acetone Species Method Source Evaluation Evaluation Evaluation Evaluation Evaluation Evaluation	image/irritation ce name state	rabbit OECD 405 ECHA low-irritant  rabbit OECD 405 ECHA irritant Based on ava	CAS no. 141-78-6 67-64-1		EC no. 205-500-4 200-662-2	
Serious eye da No Substance Lethyl-ace Species Method Source Evaluation Cource Evaluation Cource Evaluation Cource Evaluation Cource Evaluation Cource Evaluation Evaluation Evaluation Evaluation Evaluation Evaluation Evaluation	image/irritation ce name state	rabbit OECD 405 ECHA low-irritant  rabbit OECD 405 ECHA irritant Based on ava	CAS no. 141-78-6 67-64-1		EC no. 205-500-4 200-662-2	
Serious eye da No Substance I ethyl-ace Species Method Source Evaluation 2 acetone Species Method Source Evaluation	image/irritation ce name state	rabbit OECD 405 ECHA low-irritant  rabbit OECD 405 ECHA irritant Based on ava	CAS no. 141-78-6 67-64-1		EC no. 205-500-4 200-662-2	
Serious eye da No Substance Lethyl-ace Species Method Source Evaluation Cale acetone Species Method Source Evaluation Cale becies Method Source Evaluation Species Method Source Evaluation Evaluation/class Method Source Species Method Source Species Method Source	image/irritation ce name state	rabbit OECD 405 ECHA low-irritant  rabbit OECD 405 ECHA irritant Based on ava  rabbit OECD 405 ECHA irritant Based on ava	CAS no. 141-78-6 67-64-1		EC no. 205-500-4 200-662-2	
Serious eye da No Substance No Substance Species Method Source Evaluation 2 acetone Species Method Source Evaluation Evaluation Evaluation Evaluation Species Method Source Evaluation	mage/irritation ce name state sification	rabbit OECD 405 ECHA low-irritant  rabbit OECD 405 ECHA irritant Based on ava  rabbit OECD 405 ECHA irritant Based on ava	CAS no. 141-78-6 67-64-1 filable data, the cla	assification criter	EC no. 205-500-4 200-662-2 ria are met. 201-159-0	
Serious eye da No Substance Secious eye da No Substance Secious ethyl-ace Secious Method Source Sevaluation Source Sevaluation Source Sevaluation Source Sevaluation Source Sevaluation Sevaluation Sevaluation Secious Method Source Sevaluation Secious Method Source Sevaluation Secource Sevaluation Secource Sevaluation	mage/irritation ce name state sification	rabbit OECD 405 ECHA low-irritant  rabbit OECD 405 ECHA irritant Based on ava  rabbit OECD 405 ECHA irritant Based on ava	CAS no. 141-78-6 67-64-1 ilable data, the cla	assification criter	EC no. 205-500-4 200-662-2 ria are met. 201-159-0	
Serious eye da No Substance Species Method Source Evaluation Source Evaluation Species Method Source Evaluation Evaluation Evaluation/class Species Method Source Evaluation Evaluation/class Species Method Source Evaluation	mage/irritation ce name state sification	rabbit OECD 405 ECHA low-irritant  rabbit OECD 405 ECHA irritant Based on ava  rabbit OECD 405 ECHA irritant Based on ava	CAS no. 141-78-6 67-64-1 filable data, the cla	assification criter	EC no. 205-500-4 200-662-2 ria are met. 201-159-0	
Serious eye da No Substance Vertical ethyl-ace Species Method Source Evaluation Source Evaluation Source Evaluation Evaluation Evaluation/class Species Method Source Evaluation Evaluation/class Species Method Source Evaluation	mage/irritation ce name state sification	rabbit OECD 405 ECHA low-irritant  rabbit OECD 405 ECHA irritant Based on ava  rabbit OECD 405 ECHA irritant Based on ava	CAS no. 141-78-6 67-64-1 ilable data, the cla	assification criter	EC no. 205-500-4 200-662-2 ria are met. 201-159-0	
Serious eye da No Substance No Substance Species Method Source Evaluation Source Evaluation Source Evaluation Source Evaluation Evaluation/class Species Method Source Evaluation Evaluation/class Species Method Source Evaluation/class Method Source Evaluation Species Method Source Evaluation Evaluation Evaluation Evaluation Evaluation Evaluation Evaluation Evaluation Evaluation	mage/irritation ce name state sification	rabbit OECD 405 ECHA low-irritant  rabbit OECD 405 ECHA irritant Based on ava  rabbit OECD 405 ECHA irritant Based on ava	CAS no. 141-78-6 67-64-1 ilable data, the cla	assification criter	EC no. 205-500-4 200-662-2 ria are met. 201-159-0	
Serious eye da No Substance No Substance I ethyl-ace Species Method Source Evaluation Source Evaluation Source Evaluation Source Evaluation Evaluation/class Species Method Source Evaluation Evaluation/class I butanone Species Method Source Evaluation Evaluation Evaluation Evaluation Evaluation Evaluation Evaluation Evaluation Evaluation/class Method	mage/irritation ce name state sification	rabbit OECD 405 ECHA low-irritant  rabbit OECD 405 ECHA irritant Based on ava  rabbit OECD 405 ECHA irritant Based on ava  rabbit OECD 405 ECHA irritant Based on ava	CAS no. 141-78-6 67-64-1 ilable data, the cla	assification criter	EC no. 205-500-4 200-662-2 ria are met. 201-159-0	
Serious eye da No Substance 1 ethyl-ace Species Method Source Evaluation 2 acetone Species Method Source Evaluation Species Method Source Evaluation Species Method Source Evaluation Species Method Source Evaluation	mage/irritation ce name state sification	rabbit OECD 405 ECHA low-irritant  rabbit OECD 405 ECHA irritant Based on ava  rabbit OECD 405 ECHA irritant Based on ava  rabbit OECD 405 ECHA irritant Based on ava	CAS no. 141-78-6 67-64-1 ilable data, the cla	assification criter	EC no. 205-500-4 200-662-2 ria are met. 201-159-0	
Serious eye da No Substance I ethyl-ace Species Method Source Evaluation Z acetone Species Method Source Evaluation Evaluation Evaluation/class Method Source Evaluation Evaluation Species Method Source Evaluation	sification sification sification	rabbit OECD 405 ECHA low-irritant  rabbit OECD 405 ECHA irritant Based on ava  rabbit OECD 405 ECHA irritant Based on ava  rabbit OECD 405 ECHA irritant Based on ava	CAS no. 141-78-6  67-64-1  ilable data, the cla 78-93-3	assification criter	EC no. 205-500-4 200-662-2 ria are met. 201-159-0	
Serious eye da No Substance 1 ethyl-ace Species Method Source Evaluation 2 acetone Species Method Source Evaluation Evaluation Species Method Source Evaluation Evaluation/class Method Source Evaluation Species Method Source Evaluation Evaluation/class Method Source Evaluation Evaluation/class Method Source Evaluation Evaluation/class Method Source Evaluation	sification -ol	rabbit OECD 405 ECHA low-irritant  rabbit OECD 405 ECHA irritant Based on ava  rabbit OECD 405 ECHA irritant Based on ava  rabbit OECD 405 ECHA irritant Based on ava	CAS no. 141-78-6 67-64-1 ilable data, the cla	assification criter	EC no. 205-500-4 200-662-2 ria are met. 201-159-0	
Serious eye da No Substance I ethyl-ace Species Method Source Evaluation Z acetone Species Method Source Evaluation Evaluation Source Evaluation Evaluation/class Method Source Evaluation Species Method Source Evaluation	sification -ol	rabbit OECD 405 ECHA low-irritant  rabbit OECD 405 ECHA irritant Based on ava  rabbit OECD 405 ECHA irritant Based on ava  rabbit OECD 405 ECHA irritant Based on ava	CAS no. 141-78-6 67-64-1 ilable data, the cla 78-93-3 ilable data, the cla	assification criter	EC no. 205-500-4 200-662-2 ria are met. 201-159-0 ria are met. 200-661-7	
Serious eye da No Substance I ethyl-ace Species Method Source Evaluation Z acetone Species Method Source Evaluation Evaluation Species Method Source Evaluation Evaluation/class I propan-2 Species Method Source Evaluation	sification -ol	rabbit OECD 405 ECHA low-irritant  rabbit OECD 405 ECHA irritant Based on ava  rabbit OECD 405 ECHA irritant Based on ava  rabbit OECD 405 ECHA irritant Based on ava	CAS no. 141-78-6 67-64-1 ilable data, the cla 78-93-3 ilable data, the cla	assification criter	EC no. 205-500-4 200-662-2 ria are met. 201-159-0 ria are met. 200-661-7	



Trade name: ArmaFlex 520

Product no.: EUA

**Current version:** 3.0.6, issued: 09.01.2025 Replaced version: 3.0.5, issued: 22.10.2024 Region: GB

	uation uation/classification	non-irritant Based on available data, the classification	on criteria are not met.
Res	piratory or skin sensitisation	· · · · · · · · · · · · · · · · · · ·	
	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
Rout	e of exposure	Skin	
Spec	cies	guinea pig	
Meth	nod	OECD 406	
Sour	ce	ECHA	
	uation	non-sensitizing	
2	acetone	67-64-1	200-662-2
	te of exposure	Skin	
Spec		guinea pig	
Sour		ECHA	
	uation	non-sensitizing	
	uation/classification	Based on available data, the classification	
3	butanone	78-93-3	201-159-0
	te of exposure	Skin	
Spec		guinea pig	
Meth		OECD 406	
Sour		ECHA	
	uation	non-sensitizing	
	uation/classification	Based on available data, the classification	
4	propan-2-ol	67-63-0	200-661-7
	te of exposure	Skin	
Spec		guinea pig	
Meth		OECD 406	
Sour	ce uation	ECHA	
		non-sensitizing	un aritaria ara not mat
	uation/classification	Based on available data, the classification 8050-09-7	232-475-7
	Rosin; colophony te of exposure	Skin	232-475-7
Spec		mouse	
Meth		OECD 429	
Sour		ECHA	
	uation	sensitizing	
	uation/classification	Based on available data, the classification	on criteria are met
		- Dasca on available data, the diastinoatic	an entend die met
<u>Gerr</u> No	n cell mutagenicity Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
_	e of examination	in vitro gene mutation study in bacteria	200-002-2
Spec		Salmonella typhimurium	
Meth		OECD 471	
Sour		ECHA	
	uation/classification	Based on available data, the classification	on criteria are not met
	e of examination	In vitro Mammalian Chromosomal Aberra	
Spec		Chinese hamster Ovary (CHO)	2001. 1000
Meth		OECD 473	
Sour	ce	I ECHA	

Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
Type of examination	in vitro gene mutation study in mammalian cells	
Species	Mouse lymphoma cells	
Method	OECD 476	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
2 butanone	78-93-3 201-159-0	
Type of examination	in vitro gene mutation study in bacteria	
Species	Salmonella typhimurium	
Method	OECD 471	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
Type of examination	In vitro Mammalian Chromosomal Aberration Test	
Species	rat	
Method	OECD 473	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	
Type of examination	In vitro mammalian cell gene mutation test	
Species	Mouse lymphoma cells	



Trade name: ArmaFlex 520

Product no.: EUA

Current version: 3.0.6, issued: 09.01.2025 Replaced version: 3.0.5, issued: 22.10.2024 Region: GB

LMoth	ad	OECD 476		
111111111111111111111111111111111111111				
		ECHA		
Evalu	uation/classification	Based on available data, the classification crite		
Type	of examination	In vivo mammalian somatic cell study: cytogeni	city / erythrocyte micronucleus	
Spec	ies	mouse		
Meth	od	OECD 474		
Sour	ce	ECHA		
Evalu	uation/classification	Based on available data, the classification criteria are not met.		
3	propan-2-ol	67-63-0	200-661-7	
Sour	ce	ECHA		
Evalu	uation/classification	Based on available data, the classification criteria are not met.		
4	Rosin; colophony	8050-09-7	232-475-7	
Type	of examination	in vitro gene mutation study in mammalian cells		
Spec	ies	Human Lymphocyte		
Method		OECD 473		
Sour	ce	ECHA		
Evalu	uation/classification	Based on available data, the classification criteria are not met.		

Rep	Reproduction toxicity				
No	Substance name	CAS no.	EC no.		
1	acetone	67-64-1	200-662-2		
Rout	te of exposure	inhalational			
NOA	NEC .	2200	ppm		
Туре	e of examination	Prenatal Developmental Toxicity Study	•		
Spec	cies	rat			
Meth	nod	OECD 414			
Sour	rce	ECHA			
Eval	uation/classification	Based on available data, the classification crite	eria are not met.		
2	butanone	78-93-3	201-159-0		
Rout	te of exposure	inhalational			
Туре	e of examination	Prenatal Developmental Toxicity Study			
Spec	cies	rat			
Meth	nod	OECD 414			
Sour	rce	ECHA			
Eval	uation/classification	Based on available data, the classification criteria are not met.			
3	propan-2-ol	67-63-0	200-661-7		
Rout	te of exposure	oral			
NOA	ÆL	1000	mg/kg bw/d		
Туре	e of examination	Two-Generation Reproduction Toxicity Study			
Spec	cies	rats (male/female)			
Meth	nod	OECD 416			
Sour	rce	ECHA			
Eval	uation/classification	Based on the available data, the classification	criteria are not met.		
4	Rosin; colophony	8050-09-7	232-475-7		
Rout	te of exposure	oral			
Туре	e of examination	Combined Repeated Dose Toxicity Study with	the		
		Reproduction/Developmental Toxicity Screening	ng Test		
Spec	cies	rat			
Meth	nod	OECD 422			
Sour	rce	ECHA			
Eval	uation/classification	Based on available data, the classification crite	eria are not met.		

	add of fold of the date of the	Bacca on available data, the elacomedicin of			
Carc	Carcinogenicity				
No	Substance name	CAS no.	EC no.		
1	acetone	67-64-1	200-662-2		
Rout	e of exposure	dermal			
Type	of examination	Toxicity study			
Spec	ies	mouse			
Sour	ce	ECHA			
Evalu	uation/classification	Based on available data, the classification cri	iteria are not met.		
2	butanone	78-93-3	201-159-0		
Sour	ce	ECHA			
Evalu	uation/classification	Based on available data, the classification criteria are not met.			
3	propan-2-ol	67-63-0	200-661-7		
Rout	e of exposure	inhalational			
NOE	L	5000	ppm		
Spec	ies	rats (male/female)			
Meth	od	OECD 451			
Sour	ce	ECHA			



Trade name: ArmaFlex 520

Product no.: EUA

Current version: 3.0.6, issued: 09.01.2025 Replaced version: 3.0.5, issued: 22.10.2024 Region: GB

STOT - single exposure				
No	Substance name	CAS no.	EC no.	
1	ethyl-acetate	141-78-6	205-500-4	
Rout	e of exposure	inhalational		
NOE	C	350	ppm	
Spec	cies	rat		
Source		ECHA		
Effects		May cause drowsiness or dizziness.		
Eval	uation/classification	Based on available data, the classification crit	teria are met.	

	STOT - repeated exposure				
No	Substance name	CAS no.	EC no.		
1	acetone	67-64-1	200-662-2		
Route	e of exposure	oral			
NOA	EL	1000	00 ppm		
Spec	ies	rat			
Meth	od	OECD 408			
Sour	ce	ECHA			
Evalu	uation/classification	Based on available data, the classifica	tion criteria are not met.		
Route	e of exposure	inhalational			
NOA	EC	1900	00 ppm		
Spec	ies	rat			
Sour	ce	ECHA			
Evalu	uation/classification	Based on available data, the classifica	tion criteria are not met.		
2	butanone	78-93-3	201-159-0		
Route	e of exposure	inhalational			
Spec	ies	rat			
Meth	od	OECD 413			
Sour	ce	ECHA			
Evalu	uation/classification	Based on available data, the classifica	tion criteria are not met.		
3	propan-2-ol	67-63-0	200-661-7		
Route	e of exposure	inhalational			
NOA	EC	1250	00 mg/m³		
Spec	ies	rat			
Meth	od	OECD 451			
Sour	ce	ECHA			
Evalu	uation/classification	Based on available data, the classifica	tion criteria are not met.		
4	Rosin; colophony	8050-09-7	232-475-7		
Route	e of exposure	oral			
NOA		335.	2 mg/kg bw/d		
Dura	tion of exposure	90	d		
Spec		rat			
Meth	od	OECD 408			
Sour	ce	ECHA			
	uation/classification	Based on available data, the classifica			

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

Endocrine disrupting properties	
No data available	

## 11.2 Information on other hazards

Other information

No data available.

## SECTION 12: Ecological information

## 12.1 Toxicity

Toxic	Toxicity to fish (acute)						
No	Substance name	CAS no.		EC no.			
1	ethyl-acetate	141-78-6		205-500-4			
LC50			220	mg/l			
Durat	tion of exposure		96	h			
Spec	ies	Pimephales promelas					
Source	ce	ECHA					
2	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5°	% n-hexane 64742-49-0		926-605-8			
LL50			12	mg/l			
Durat	tion of exposure		96	h			



Trade name: ArmaFlex 520

Product no.: EUA

Current version: 3.0.6, issued: 09.01.2025 Replaced version: 3.0.5, issued: 22.10.2024 Region: GB

acorhynchus mykiss ECD 203 EHA  67-64-1  5540 96 acorhynchus mykiss EHA sed on available data, the classification of 78-93-3	200-662-2 mg/l h criteria are not met. 201-159-0
67-64-1  5540 96 ncorhynchus mykiss CHA sed on available data, the classification of	mg/l h criteria are not met.
67-64-1 5540 96 ncorhynchus mykiss CHA sed on available data, the classification of	mg/l h criteria are not met.
96 ncorhynchus mykiss CHA used on available data, the classification of 78-93-3	h criteria are not met.
ncorhynchus mykiss CHA Ised on available data, the classification of 78-93-3	h criteria are not met.
CHA sed on available data, the classification of the classificatio	
sed on available data, the classification of 78-93-3	
78-93-3	
1000	201-159-0
2973	201-103-0
	mg/l
96	h
nephales promelas	
ECD 203	
CHA	
67-63-0	200-661-7
9640	mg/l
96	h
nephales promelas	
ECD 203	
CHA	
8050-09-7	232-475-7
1.7	mg/l
96	h
mephales promelas	
ECD 203	
TE CI	CD 203 HA  67-63-0  9640 96  nephales promelas CD 203 HA  8050-09-7  1.7 96  nephales promelas

Toxicity to fish (chronic)	
No data available	

Toxicity to Daphnia (acute)					
No Substance name		CAS no.		EC no.	
1 ethyl-acetate		141-78-6		205-500-4	
EC50			3090	mg/l	
Duration of exposure			24	h	
Species	Daphnia magna	ì			
Source	ECHA				
2 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5	% n-hexane	64742-49-0		926-605-8	
EL50			3	mg/l	
Duration of exposure			48	h	
Species	Daphnia magna	ì			
Source	ECHA	07.04.4		222.222.2	
3 acetone	1	67-64-1	2000	200-662-2	
EC50			8800	mg/l	
Duration of exposure	Danis de madera		48	h	
Species	Daphnia pulex				
Source	ECHA				
Evaluation/classification	Based on availa	able data, the cla	ssification crite		
4 butanone	1	78-93-3	000	201-159-0	
EC50			308	mg/l	
Duration of exposure	D 1 1		48	h	
Species	Daphnia magna	1			
Method	OECD 202				
Source	ECHA	8050-09-7		232-475-7	
5 Rosin; colophony		8050-09-7	400		
EL50	>		100	mg/l	
Duration of exposure	Danhnia magna		48	h	
Species Method	Daphnia magna OECD 202	1			
1					
Source	ECHA				

city to Daphnia (chronic)				
Substance name	CAS no.		EC no.	
ethyl-acetate	141-78-6		205-500-4	
С		2.4	mg/l	
	Daphnia magna		_	
od	OECD 211			
		Substance name CAS no. ethyl-acetate 141-78-6 C cies Daphnia magna	Substance name CAS no. ethyl-acetate 141-78-6 C 2.4 sies Daphnia magna	Substance name         CAS no.         EC no.           ethyl-acetate         141-78-6         205-500-4           C         2.4         mg/l           sies         Daphnia magna

Toxi	city to algae (acute)			
No	Substance name	CAS no.	EC no.	



Trade name: ArmaFlex 520

Product no.: EUA

Current version: 3.0.6, issued: 09.01.2025 Replaced version: 3.0.5, issued: 22.10.2024 Region: GB

1	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5°	% n-hexane 64742-49-0		926-605-8
EL50		/6 II-IIEXAIIE 04/42-45-0	26	
			72	mg/l
	tion of exposure	Decodeline by a della code contrate	12	h
Spec		Pseudokirchneriella subcapitata		
Meth	od	OECD 201		
Sour	ce	ECHA		
2	butanone	78-93-3		201-159-0
EC5	)		1220	mg/l
Dura	tion of exposure		96	h
Spec	ties	Raphidocelis subcapitata		
Meth	od	OECD 201		
Sour	ce	ECHA		
3	Rosin; colophony	8050-09-7		232-475-7
EL50		>	100	mg/l
Dura	tion of exposure		72	h
Spec	ies	Desmodesmus subspicatus		
Meth	od	OECD 201		
Sour	ce	ECHA		

Toxio	Toxicity to algae (chronic)							
No	Substance name	CAS no.		EC no.				
1	ethyl-acetate	141-78-6		205-500-4				
NOE	С	>	100	mg/l				
Species		Desmodesmus subspicatus		_				
Method		OECD 201						
Sour	ce	ECHA						

Bact	Bacteria toxicity						
No	Substance name	CAS no.		EC no.			
1	Rosin; colophony	8050-09-7		232-475-7			
IC50		>	10000	mg/l			
Dura	tion of exposure		3	h			
Spec	ies	activated sludge					
Meth	od	OECD 209					
Sour	ce	ECHA					

12.2 Persistence and degradability

Biodegradability				
No Substance name		CAS no.		EC no.
1 ethyl-acetate		141-78-6		205-500-4
Туре	COD			
Value			1.69	g O2/g
Source	ECHA			
Evaluation	readily biodegi			
2 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5		64742-49-0		926-605-8
Туре	aerobic biodeg	radation		
Value	81	-	~~	%
Duration			28	day(s)
Method	OECD 301 F			
Source	ECHA			
Evaluation	readily biodegi			
3 acetone		67-64-1		200-662-2
Туре	aerobic biodeg	radation		
Value			90.9	%
Duration			28	day(s)
Method	OECD 301 B			
Source	ECHA			
Evaluation	readily biodegi			
4 butanone		78-93-3		201-159-0
Туре	aerobic biodec	radation		
Value			98	%
Duration			28	day(s)
Method	OECD 301 D			
Source	ECHA			
Evaluation	readily biodegi			
5 propan-2-ol	1	67-63-0		200-661-7
Туре	BOD/COD			
Value			53	%
Duration			5	day(s)
Source	ECHA			



Trade name: ArmaFlex 520

Product no.: EUA

Current version: 3.0.6, issued: 09.01.2025 Replaced version: 3.0.5, issued: 22.10.2024 Region: GB

Evaluation	readily biodegradable	
6 Rosin; colophony	8050-09-7	232-475-7
Type	aerobic biodegradation	
Value		80 %
Duration		28 day(s)
Method	OECD 301 B	
Source	ECHA	
Evaluation	readily biodegradable	

12.3 Bioaccumulative potential

Parti	tion coefficient n-octanol/water (log value)						
No	Substance name		CAS no.		EC no.		
1	ethyl-acetate		141-78-6		205-500-4		
log F	ow			0.68			
Refe	rence temperature			25	°C		
Sour	ce	ECHA					
2	acetone		67-64-1		200-662-2		
log F	ow			-0.23			
Meth		QSAR					
Sour	ce	ECHA					
3	butanone		78-93-3		201-159-0		
log F	ow			0.3			
Refe	rence temperature			40	°C		
Meth	od	OECD 117					
Sour	ce	ECHA					
4	propan-2-ol		67-63-0		200-661-7		
log F	Pow			0.05			
Refe	rence temperature			25	°C		
Sour	ce	ECHA					
5	Rosin; colophony		8050-09-7		232-475-7		
log F	ow			3.01			
Refe	rence temperature			20	°C		
Meth	od	EU Method A.8					
Sour	ce	ECHA					

## 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment			
Product Name			
ArmaFlex 520			
PBT assessment	The components of this product are not considered to be a PBT.		
vPvB assessment	The components of this product are not considered to be a vPvB.		

## 12.6 Endocrine disrupting properties

No data available.

## 12.7 Other adverse effects

No data available.

## 12.8 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 Waste treatment methods

Product

Waste code 08 04 09\* waste adhesives and sealants containing organic solvents or other hazardous substances

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

dispose of in accordance with local regulation.

**Packaging** 

Waste code 15 01 10\* packaging containing residues of or contaminated by hazardous substances Residues 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 the form of disposal specified by the regional disposer.



Trade name: ArmaFlex 520

Product no.: EUA

Current version: 3.0.6, issued: 09.01.2025 Replaced version: 3.0.5, issued: 22.10.2024 Region: GB

## **SECTION 14: Transport information**

### 14.1 UN number or ID number

 ADR/RID/ADN
 UN1133

 IMDG
 UN1133

 ICAO-TI / IATA
 UN1133

## 14.2 UN proper shipping name

ADR/RID/ADN ADHESIVES
IMDG ADHESIVES
Technical name cyclohexane
ICAO-TI / IATA Adhesives

### 14.3 Transport hazard class(es)

ADR/RID/ADN - Class 3 Label 3 F1 Classification code Tunnel restriction code D/E Hazard identification no. 33 Special Provision 640 640D **IMDG - Class** 3 3 3 ICAO-TI / IATA - Class 3

## 14.4 Packing group

### 14.5 Environmental hazards

ADR/RID/ADN Symbol "fish and tree" IMDG Symbol "fish and tree"

EmS F-E, S-D

## 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.

## 14.7 Maritime transport in bulk according to IMO instruments

Not relevant

## **SECTION 15: Regulatory information**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU regulations</u>

## Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

### REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES						
	product is considered being subject to REACH regulation		No 3, 40			
The	The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.					
No	Substance name	CAS no.	EC no.	No		
1	acetone	67-64-1	200-662	-2 75		
2	butanone	78-93-3	201-159	-0 75		
3	cyclohexane	110-82-7	203-806	-2 57, 75		
4	ethyl-acetate	141-78-6	205-500	-4 75		
5	propan-2-ol	67-63-0	200-661	-7 75		
6	Rosin; colophony	8050-09-7	232-475	-7 75		

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances



Trade name: ArmaFlex 520

Product no.: EUA

Current version: 3.0.6. issued: 09.01.2025 Replaced version: 3.0.5. issued: 22.10.2024 Region: GB

This product is subject to Part I of Annex I, risk category:

F1 P5b

If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.

Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)

VOC content

Other regulations

Entry 75 is not applicable to the product as it is not used for the preparation of colourants for tattooing purposes

## National regulations

### Other regulations

This product is regulated by Regulation (EU) No. 2019/1148: All suspicious transactions, disappearance and theft of significant quantities must be reported to the appropriate national contact point. See https://home-affairs.ec.europa.eu/policies/internalsecurity/counter-terrorism-and-radicalisation/protection/legislation-chemicals-used-home-made-explosives en

#### 15.2 **Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

## **SECTION 16: Other information**

### **Further information**

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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.

## Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP), 2020/878 as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

## Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

Repeated exposure may cause skin dryness or cracking. **EUH066** 

H304 May be fatal if swallowed and enters airways.

H400 Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects. H411

### Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

The harmonised classification as a carcinogen applies unless the full refining history is known and it

can be shown that the substance from which it is produced is not a carcinogen, in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard

### Alterations/supplements:

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

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