MAKING A DIFFERENCE AROUND THE WORLD EU safety data sheet

Trade name: Armaflex 520

Current version : 13.0.0, issued: 31.03.2022

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

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 48153
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 +49 (0) 251 - 7603-200

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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 Chronic 2; H411 Eye Irrit. 2; H319 Flam. Liq. 2; H225 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)





Hazardous component(s) to be indicated on label: Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane ethyl-acetate



Trade name: Armaflex 520

Current version : 13.0.0, issued: 31.03.2022

Replaced version: 12.0.0, issued: 27.01.2022

Region: GB

acetone	
butanone	
Hazard statement(s)	
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
Hazard statements (EU)	Departed synapsize may equal skip downed at excelsing
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains Rosin; colophony. May produce an allergic reaction.
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.
1 501	

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		Addit	ional information		
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Conc	entration		%
	REACH no					
1	Hydrocarbons, C6-C7	7, isoalkanes, cyclics, <5% n-hexane				
	64742-49-0	Aquatic Chronic 2; H411	>	25.00 - <	40.00	wt%
	926-605-8	Asp. Tox. 1; H304				
	-	Flam. Liq. 2; H225				
	01-2119486291-36	STOT SE 3; H336				
		EUH066				
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	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				
4	butanone					
	78-93-3	Flam. Liq. 2; H225		1.00 - <	5.00	wt%
	201-159-0	Eye Irrit. 2; H319				
	606-002-00-3	STOT SE 3; H336				
	01-2119457290-43	EUH066				
5	propan-2-ol					
	67-63-0	Eye Irrit. 2; H319		1.00 - <	2.50	wt%
	200-661-7	Flam. Liq. 2; H225				
	603-117-00-0	STOT SE 3; H336				
	01-2119457558-25					
6	Rosin; colophony					
	8050-09-7	Skin Sens. 1; H317		0.10 - <	1.00	wt%
	232-475-7					



Trade name: Armaflex 520

Current version : 13.0.0, issued: 31.03.2022

Replaced version: 12.0.0, issued: 27.01.2022

Region: GB

650-015-00-7

	01-2119480418-32		1
Full T	ext for all H-phrases and	IEUH-phrases: pls. see section 16	

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

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



Trade name: Armaflex 520

Current version : 13.0.0, issued: 31.03.2022

Region: GB

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	ethyl-acetate	141-78-6		205-500-4	
	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				
	Ethyl acetate				
	WEL short-term (15 min reference period)			400	ppm
	WEL long-term (8-hr TWA reference period)			200	ppm
2	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
3	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			
4	propan-2-ol	67-63-0		200-661-7	
	List of approved workplace exposure limits (WELs) / EH40				
	Propan-2-ol				
	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

DNEL, DMEL and PNEC values

DNEL values (worker)



Trade name: Armaflex 520

water

soil

Current version : 13.0.0, issued: 31.03.2022

Replaced version: 12.0.0, issued: 27.01.2022

Region: GB

mg/kg dry weight mg/kg dry weight

0.115 0.148

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1		oalkanes, cyclics, <5% n-he	kane	64742-49-0	
				926-605-8	
	dermal	Long term (chronic)	systemic	13964	mg/kg/day
	inhalative	Long term (chronic)	systemic	5306	mg/m ³
2	ethyl-acetate			141-78-6	0
	-			205-500-4	
	dermal	Long term (chronic)	systemic	63	mg/kg/day
	inhalative	Long term (chronic)	systemic	734	mg/m ³
	inhalative	Short term (acut)	systemic	1468	mg/m ³
	inhalative	Long term (chronic)	local	734	mg/m ³
	inhalative	Short term (acut)	local	1468	mg/m ³
	acetone			67-64-1	U
				200-662-2	
	dermal	Long term (chronic)	systemic	186	mg/kg/day
	inhalative	Short term (acut)	local	2420	mg/m ³
	inhalative	Short term (acut)	systemic	1210	mg/m ³
	butanone			78-93-3	0
				201-159-0	
	dermal	Long term (chronic)	systemic	1161	mg/kg/day
	inhalative	Long term (chronic)	systemic	600.00	mg/m ³
	propan-2-ol			67-63-0	ž
	l			200-661-7	
	dermal	Long term (chronic)	systemic	888	mg/kg/day
	inhalative	Long term (chronic)	systemic	500	mg/m ³
				1	Ŭ
0	DNEL value (consumer)			CAS / EC no	
0	Substance name Route of exposure	Evenenue time	Effect	Value	
	Route of exposure	Exposure time oalkanes, cyclics, <5% n-he		64742-49-0	
	Hydrocarbons, Co-C7, IS	oaikanes, cyclics, <5% n-ne	kane	926-605-8	
	oral	Long term (chronic)	ovetomia	1301	mg/kg/day
	dermal	Long term (chronic)	systemic systemic	1301	
		Long term (chronic)		1131	mg/kg/day mg/m³
	inhalative	Long term (chronic)	systemic	141-78-6	mg/m²
	ethyl-acetate			205-500-4	
	oral	Long term (chronic)	avetomia	4.5	mg/kg/day
	dermal	Long term (chronic)	systemic systemic	37	mg/kg/day
	inhalative	Long term (chronic)	systemic	367	mg/m ³
		Short term (acut)		734	<u> </u>
	inhalative		systemic		mg/m ³
	inhalative	Long term (chronic)	local	367	mg/m ³
	inhalative	Short term (acut)	local	734 67-64-1	mg/m³
	acetone			200-662-2	
	orol	Long torm (obrania)	ovotomio		ma/ka/day
	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
	butanone			78-93-3	
	orol	Long torm (share)	ovetemie	201-159-0	malle
	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
	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
	PNEC values				
0	Substance name			CAS / EC no	
	ecological compartment	Туре		Value	
	ethyl-acetate			141-78-6	
				205-500-4	
	water	fresh w	ater	0.24	mg/L
	water	marine	water	0.024	mg/L
	water water		water ater sediment	0.024	mg/L mg/kg dry weigl

marine water sediment



Trade name: Armaflex 520

Current version : 13.0.0, issued: 31.03.2022

Region: GB

	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	butanone		78-93-3	-
			201-159-0	
	water	fresh water	55.8	mg/L
	water	marine water	55.8	mg/L
	water	Aqua intermittent	55.8	mg/L
	water	fresh water sediment	284.74	mg/kg
	with reference to: dry weight			
	water	marine water sediment	284.7	mg/kg
	with reference to: dry weight			
	soil	-	22.5	mg/kg
	with reference to: dry weight			
	sewage treatment plant	-	709	mg/L
	secondary poisoning	-	1000	mg/kg
	with reference to: food			
4	propan-2-ol		67-63-0	
			200-661-7	
	water	fresh water	140.9	mg/L
	water	Aqua intermittent	140.9	mg/L
	water	marine water	140.9	mg/L
	water	fresh water sediment	552	mg/L
	water	marine water sediment	552	mg/L
	soil	-	28	mg/kg
	sewage treatment plant	-	2251	mg/L
	secondary poisoning	-	160	mg/kg

8.2 Exposure controls

Appropriate engineering controls

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

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

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.

mm

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

Fire-resistant antistatic protective clothing.

Environmental exposure controls No data available.

SECTION 9: Physical and chemical properties



Trade name: Armaflex 520

Current version : 13.0.0, issued: 31.03.2022

Replaced version: 12.0.0, issued: 27.01.2022

Region: GB

9.1 Information on basic physical and chemical properties

State of aggregation				
liquid				
Form/Colour				
liquid				
beige				
Odour				
like solvents				
pH value				
No data available				
Boiling point / boiling range				
Value		55	°C	
Source	supplier			
Melting point/freezing point				
No data available				
Decomposition temperature				
No data available				
Flash point				
Value		-15	°C	
Source	supplier			
Ignition temperature				
No data available				
Auto-ignition temperature				
Value		235	C°	
Source	supplier			
Flammability				
Not applicable				
Source	supplier			
Lower explosion limit				
Value		1	% vol	
Source	supplier			
Upper explosion limit				
Value	a sugar li a n	20	% vol	
Source	supplier			
Vapour pressure				
No data available				
Relative vapour density				
No data available				
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 (log value)				
No Substance name		CAS no.		EC no.
1 ethyl-acetate		141-78-6	0.68	205-500-4
Reference temperature			25	°C
Source	ECHA			
2 acetone		67-64-1		200-662-2
Log Dow			-0.23	
log Pow	0040		-0.23	
Method Source	QSAR ECHA		-0.23	



Trade name: Armaflex 520

Current version : 13.0.0, issued: 31.03.2022

Replaced version: 12.0.0, issued: 27.01.2022

Region: GB

3	butanone		78-93-3		201-159-0
log F	Pow			0.3	
Refe	rence temperature			40	°C
Met		OECD 117			
Sou	ce	ECHA			
4	propan-2-ol		67-63-0		200-661-7
log	Pow			0.05	
Refe	rence temperature			25	°C
Sou	ce	ECHA			
Vico	osity				
	· · · · · · · · · · · · · · · · · · ·	1.	4000		
Valu		>	1000	mm²/s	
	erence temperature		40	°C	
Type		kinematic			
Sou	ce	supplier			
_					
Part	icle characteristics				
No d	lata available				

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** 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

Acut	te oral toxicity			
No	Substance name	CAS no.		EC no.
1	ethyl-acetate	141-78-6		205-500-4
LD50)	>	5600	mg/kg bodyweight
Spec	cies	rat		
Sour	ce	ECHA		
2	acetone	67-64-1		200-662-2
LD50)		5800	mg/kg bodyweight
Spec	cies	rat		
Sour	ce	ECHA		
Evalı	uation/classification	Based on available data, the	e classification cri	teria are not met.
3	butanone	78-93-3		201-159-0
LD50)		2054	mg/kg bodyweight
Spec	cies	rat		
Meth	nod	OECD 423		
Sour	ce	ECHA / Read across		
4	propan-2-ol	67-63-0		200-661-7
LD50)		5840	mg/kg bodyweight
Spec		rat		
Meth	nod	OECD 401		
Sour	ce	ECHA		
Evalı	uation/classification	Based on available data, the	e classification cri	teria are not met.
Acut	te dermal toxicity			
No	Substance name	CAS no.		EC no.



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Region: GB

1	ethyl-acetate	141-78	-6	205-500-4
_D50		>	20000	mg/kg bodyweight
Spec		rabbit		
Sour		ECHA		
2	acetone	67-64-1		200-662-2
LD50		>	15800	mg/kg bodyweight
Spec		rabbit		
Sour		ECHA Beased an available data	the close if action or	itaria ara nat mat
Evail	uation/classification	Based on available data	i, the classification cr	iteria are not met.
	e inhalational toxicity			
-	Substance name	CAS n		EC no.
1	acetone	67-64-1	76	200-662-2
LC50	tion of exposure		4	mg/l h
	of aggregation	Vapour	4	п
Spec		rat		
Sour		ECHA		
	uation/classification	Based on available data	the classification cr	iteria are not met
2	propan-2-ol	67-63-0	,	200-661-7
- LC50		>	, 10000	ppmV
	tion of exposure		6	h
	of aggregation	Vapour		
Spec		rat		
Neth		OECD 403		
Sour	се	ECHA		
Evalu	uation/classification	Based on available data	, the classification cr	iteria are not met.
Skin	corrosion/irritation			
No	Substance name	CAS n	D.	EC no.
1	Hydrocarbons, C6-C7, isoalkanes, c			926-605-8
Spec		rabbit		
Meth		OECD 404		
Sour	се	ECHA		
Evalu	uation	non-irritant		
2	ethyl-acetate	141-78	-6	205-500-4
Spec		rabbit		
Meth		OECD 404		
Sour		ECHA		
	uation	low-irritant	4	
	uation/classification	Based on available data		iteria are not met. 200-662-2
3 Snoo	acetone	67-64-1		200-002-2
Spec Sour		guinea pig ECHA		
	uation	non-irritant		
	Jation/classification	Based on available data	the classification or	iteria are not met
4	butanone	78-93-3	,	201-159-0
	tion of exposure		4	h
Spec		rabbit	т	
Meth		OECD 404		
		ECHA / Read across		
	ce			
Sour	ce Jation	non-irritant		
Sour Evalı				200-661-7
Soure Evalu 5	uation propan-2-ol	non-irritant)	200-661-7
Soure Evalu 5 Spec	uation propan-2-ol ies	non-irritant 67-63-0		200-661-7
Sour Evalu 5 Spec Sour	uation propan-2-ol ies	non-irritant 67-63-0 rabbit ECHA non-irritant		
Sour Evalu 5 Spec Sour Evalu	uation propan-2-ol vies ce	non-irritant 67-63-0 rabbit ECHA		
Sour Evalu 5 Spec Sour Evalu Evalu	uation propan-2-ol ce uation uation/classification	non-irritant 67-63-0 rabbit ECHA non-irritant		
Sourd Evalu Spec Sourd Evalu Evalu Seric	uation propan-2-ol cies ce uation	non-irritant 67-63-0 rabbit ECHA non-irritant Based on available data	, the classification cr	
Sourd Evalu Spec Sourd Evalu Evalu Seric No	uation propan-2-ol ties ce uation uation/classification ous eye damage/irritation Substance name	non-irritant 67-63-0 rabbit ECHA non-irritant	, the classification cr	iteria are not met.
Sourd Evalu Spec Sourd Evalu Evalu Seric No	aation propan-2-ol ties ce Jation Jation/classification ous eye damage/irritation Substance name ethyl-acetate	non-irritant 67-63-0 rabbit ECHA non-irritant Based on available data CAS no 141-78	, the classification cr	iteria are not met. EC no.
Sourd Evalu Spec Sourd Evalu Evalu Seric No 1 Spec	aation propan-2-ol ties ce Jation Jation/classification Dus eye damage/irritation Substance name ethyl-acetate ties	non-irritant 67-63-0 rabbit ECHA non-irritant Based on available data	, the classification cr	iteria are not met. EC no.
Sourd Evalu Spec Sourd Evalu Evalu Evalu Seric No 1 Spec Meth	aation propan-2-ol ties ce Jation Jation/classification bus eye damage/irritation Substance name ethyl-acetate ties od	non-irritant 67-63-0 rabbit ECHA non-irritant Based on available data CAS no 141-78 rabbit	, the classification cr	iteria are not met. EC no.
Sourd Evalu Spec Sourd Evalu Evalu Evalu Seric No 1 Spec Meth Sourd	aation propan-2-ol ties ce Jation Jation/classification bus eye damage/irritation Substance name ethyl-acetate ties od	non-irritant 67-63-0 ECHA non-irritant Based on available data CAS n 141-78 rabbit OECD 405	, the classification cr	iteria are not met. EC no.
Sourd Evalu Spec Sourd Evalu Evalu Seric No 1 Spec Meth Sourd Evalu	aation propan-2-ol ties ce Jation Jation/classification bus eye damage/irritation Substance name ethyl-acetate ties od ce	non-irritant 67-63-0 rabbit ECHA non-irritant Based on available data CAS n 141-78 rabbit OECD 405 ECHA	, the classification cr 5. -6	iteria are not met. EC no.
Sourd Spec Sourd Evalu Evalu Seric No 1 Spec Meth Sourd Evalu 2	action propan-2-ol ities ce Jation Jation/classification Dus eye damage/irritation Substance name ethyl-acetate ties od ce Jation acetone	non-irritant 67-63-0 rabbit ECHA non-irritant Based on available data CAS n 141-78 rabbit OECD 405 ECHA low-irritant	, the classification cr 5. -6	iteria are not met. EC no. 205-500-4
Sourd Evalu Spec Sourd Evalu Evalu Evalu Spec Meth Sourd Evalu 2 Spec	aation propan-2-ol ies ce Jation Jation/classification Dus eye damage/irritation Cous eye damage/irrit	non-irritant 67-63-0 rabbit ECHA non-irritant Based on available data CAS n 141-78 rabbit OECD 405 ECHA low-irritant 67-64-*	, the classification cr 5. -6	iteria are not met. EC no. 205-500-4
Sourr Evalu Specc Sourr Evalu Evalu Seric No Specc Meth Sourr Evalu 2 Specc Meth	aation propan-2-ol ies ce aation aation/classification bus eye damage/irritation bustance name ethyl-acetate ce aation acetone ce sies od ce aceout	rabbit ECHA non-irritant Based on available data CAS n 141-78 rabbit OECD 405 ECHA low-irritant 67-64-7	, the classification cr 5. -6	iteria are not met. EC no. 205-500-4
Sourrest Evalu Specc Sourrest Evalu Evalu Evalu Specc Meth Source Specc Meth Source Specc Meth Source	aation propan-2-ol ies ce aation aation/classification bus eye damage/irritation bustance name ethyl-acetate ce aation acetone ce sies od ce aceout	rabbit CAS non-irritant ECHA non-irritant Based on available data CAS non-irritant CAS non-irritant	, the classification cr 5. -6	iteria are not met. EC no. 205-500-4



Trade name: Armaflex 520

Current version : 13.0.0, issued: 31.03.2022

Replaced version: 12.0.0, issued: 27.01.2022

Region: GB

none			
inone		70 00 0	004 450 0
	nah hit	78-93-3	201-159-0
	rabbit		
	OECD 405		
	ECHA		
	irritant		
oan-2-ol		67-63-0	200-661-7
	rabbit		
	OECD 405		
		able data the class	vification criteria are met
	Dased on availa		
ry or skin sensitisation			
			EC no.
		141-78-6	205-500-4
xposure	Skin		
	guinea pig		
	OECD 406		
	ECHA		
	-		
	non-sonsiuzing		200-662-2
	Skin	07-04-1	200-002-2
xposure			
/classification	Based on availa	able data, the class	sification criteria are not met.
inone		78-93-3	201-159-0
	Skin		
	-		
	non-sensitizing		
oan-2-ol		67-63-0	200-661-7
xposure	Skin		
	guinea pig		
	OECD 406		
	ECHA		
	non-sensitizing		
/classification	non-sensitizing		ification criteria are not met
/classification			ification criteria are not met.
/classification mutagenicity		able data, the class	
/classification mutagenicity stance name	Based on availa	able data, the class CAS no.	EC no.
/classification mutagenicity	Based on availa	able data, the class CAS no. 64742-49-0	
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, <	Based on availa	CAS no. 64742-49-0 Icross	EC no. 926-605-8
/classification mutagenicity stance name	Based on availa	CAS no. 64742-49-0 Icross	EC no.
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, <	Based on availa	CAS no. 64742-49-0 Icross	EC no. 926-605-8
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, < /classification	Based on availa	CAS no. 64742-49-0 Icross able data, the class	EC no. 926-605-8 sification criteria are not met. 200-662-2
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, < /classification one	Based on availa	CAS no. 64742-49-0 ccross able data, the class 67-64-1 utation study in bac	EC no. 926-605-8 sification criteria are not met. 200-662-2
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, < /classification one	5% n-hexane ECHA / Read a Based on availa in vitro gene mu Salmonella typi	CAS no. 64742-49-0 cross able data, the class 67-64-1 utation study in bac	EC no. 926-605-8 sification criteria are not met. 200-662-2
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, < /classification one	5% n-hexane ECHA / Read a Based on availa in vitro gene m Salmonella typl OECD 471	CAS no. 64742-49-0 cross able data, the class 67-64-1 utation study in bac	EC no. 926-605-8 sification criteria are not met. 200-662-2
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, < /classification one amination	5% n-hexane ECHA / Read a Based on availa in vitro gene m Salmonella typl OECD 471 ECHA	CAS no. 64742-49-0 icross able data, the class 67-64-1 utation study in bac himurium	EC no. 926-605-8 sification criteria are not met. 200-662-2 steria
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, < /classification one amination /classification	5% n-hexane ECHA / Read a Based on availa in vitro gene mu Salmonella typi OECD 471 ECHA Based on availa	CAS no. 64742-49-0 Incross able data, the class 67-64-1 Jutation study in bach himurium able data, the class	EC no. 926-605-8 sification criteria are not met. 200-662-2 steria
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, < /classification one amination	5% n-hexane ECHA / Read a Based on availa in vitro gene mu Salmonella typh OECD 471 ECHA Based on availa In vitro Mamma	CAS no. 64742-49-0 Incross able data, the class 67-64-1 Jutation study in bac himurium able data, the class lian Chromosomal	EC no. 926-605-8 sification criteria are not met. 200-662-2 steria
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, < /classification one amination /classification	Based on availation 5% n-hexane ECHA / Read at Based on availation in vitro gene mu Salmonella typh OECD 471 ECHA Based on availation In vitro Mamma Chinese hamst	CAS no. 64742-49-0 Incross able data, the class 67-64-1 Jutation study in bach himurium able data, the class	EC no. 926-605-8 sification criteria are not met. 200-662-2 steria
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, < /classification one amination /classification	Based on availation 5% n-hexane ECHA / Read a Based on availation in vitro gene mu Salmonella type OECD 471 ECHA Based on availation In vitro Mamma Chinese hamst OECD 473	CAS no. 64742-49-0 Incross able data, the class 67-64-1 Jutation study in bac himurium able data, the class lian Chromosomal	EC no. 926-605-8 sification criteria are not met. 200-662-2 steria
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, < /classification one amination /classification	Based on availation 5% n-hexane ECHA / Read at Based on availation in vitro gene mu Salmonella typh OECD 471 ECHA Based on availation In vitro Mamma Chinese hamst	CAS no. 64742-49-0 Incross able data, the class 67-64-1 Jutation study in bac himurium able data, the class lian Chromosomal	EC no. 926-605-8 sification criteria are not met. 200-662-2 steria
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, < /classification one amination /classification	Based on availation 5% n-hexane ECHA / Read a Based on availation in vitro gene mu Salmonella typh OECD 471 ECHA Based on availation in vitro Mamma Chinese hamst OECD 473 ECHA	CAS no. 64742-49-0 cross able data, the class 67-64-1 utation study in bac nimurium able data, the class lian Chromosomal er Ovary (CHO)	EC no. 926-605-8 sification criteria are not met. 200-662-2 steria
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, < /classification amination /classification amination	Based on availation 5% n-hexane ECHA / Read a Based on availation in vitro gene mu Salmonella typi OECD 471 ECHA Based on availation In vitro Mamma Chinese hamst OECD 473 ECHA Based on availation	CAS no. 64742-49-0 cross able data, the class 67-64-1 utation study in bac nimurium able data, the class lian Chromosomal er Ovary (CHO)	EC no. 926-605-8 sification criteria are not met. 200-662-2 cteria sification criteria are not met. Aberration Test
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, < /classification one amination /classification amination	Based on availation 5% n-hexane ECHA / Read a Based on availation in vitro gene mustor Salmonella typh OECD 471 ECHA Based on availation In vitro Mamma Chinese hamst OECD 473 ECHA Based on availation In vitro Mamma OECD 473 ECHA Based on availation In vitro gene must	Able data, the class CAS no. 64742-49-0 cross able data, the class 67-64-1 Jutation study in back himurium able data, the class lian Chromosomal er Ovary (CHO) able data, the class utation study in ma	EC no. 926-605-8 sification criteria are not met. 200-662-2 cteria sification criteria are not met. Aberration Test
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, < /classification amination /classification amination	Based on availation 5% n-hexane ECHA / Read a Based on availation in vitro gene mit Salmonella typi OECD 471 ECHA Based on availation In vitro Mamma Chinese hamst OECD 473 ECHA Based on availation In vitro gene mit Mouse lymphon	Able data, the class CAS no. 64742-49-0 cross able data, the class 67-64-1 Jutation study in back himurium able data, the class lian Chromosomal er Ovary (CHO) able data, the class utation study in ma	EC no. 926-605-8 sification criteria are not met. 200-662-2 cteria sification criteria are not met. Aberration Test
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, < /classification amination /classification amination	Based on availation 5% n-hexane ECHA / Read a Based on availation in vitro gene mit Salmonella typi OECD 471 ECHA Based on availation In vitro Mamma Chinese hamst OECD 473 ECHA Based on availation Notro gene mit Mouse lymphon OECD 476	Able data, the class CAS no. 64742-49-0 cross able data, the class 67-64-1 Jutation study in back himurium able data, the class lian Chromosomal er Ovary (CHO) able data, the class utation study in ma	EC no. 926-605-8 sification criteria are not met. 200-662-2 cteria sification criteria are not met. Aberration Test
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, /classification one amination /classification /classification amination /classification amination	Based on availation 5% n-hexane ECHA / Read a Based on availation in vitro gene mission Salmonella typi OECD 471 ECHA Based on availation In vitro Mamma Chinese hamst OECD 473 ECHA Based on availation Netro gene mission OECD 476 ECHA	Able data, the class CAS no. 64742-49-0 icross able data, the class 67-64-1 utation study in back himurium able data, the class utation chromosomal er Ovary (CHO) able data, the class utation study in ma ma cells	EC no. 926-605-8 sification criteria are not met. 200-662-2 cteria sification criteria are not met. Aberration Test sification criteria are not met. mmalian cells
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, /classification one amination /classification /classification amination /classification /classification amination /classification /classification /classification /classification	Based on availation 5% n-hexane ECHA / Read a Based on availation in vitro gene mission Salmonella typi OECD 471 ECHA Based on availation In vitro Mamma Chinese hamst OECD 473 ECHA Based on availation Netro gene mission OECD 476 ECHA	Able data, the class CAS no. 64742-49-0 icross able data, the class 67-64-1 utation study in back himurium able data, the class utation study in ma able data, the class utation study in ma ma cells able data, the class	EC no. 926-605-8 sification criteria are not met. 200-662-2 cteria sification criteria are not met. Aberration Test sification criteria are not met. mmalian cells
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, /classification one amination /classification amination /classification amination /classification amination /classification amination /classification amination	Based on availa	CAS no. 64742-49-0 cross able data, the class 67-64-1 utation study in bac nimurium able data, the class lian Chromosomal er Ovary (CHO) able data, the class utation study in ma ma cells able data, the class 78-93-3	EC no. 926-605-8 sification criteria are not met. 200-662-2 eteria sification criteria are not met. Aberration Test sification criteria are not met. mmalian cells sification criteria are not met. 201-159-0
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, /classification one amination /classification /classification amination /classification /classification amination /classification /classification /classification /classification	Based on availa	CAS no. 64742-49-0 cross able data, the class 67-64-1 utation study in bac nimurium able data, the class ulian Chromosomal er Ovary (CHO) able data, the class utation study in ma ma cells able data, the class 78-93-3 utation study in bac	EC no. 926-605-8 sification criteria are not met. 200-662-2 eteria sification criteria are not met. Aberration Test sification criteria are not met. mmalian cells sification criteria are not met. 201-159-0
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, /classification one amination /classification amination /classification amination /classification amination /classification amination /classification amination	Based on availa	CAS no. 64742-49-0 cross able data, the class 67-64-1 utation study in bac nimurium able data, the class ulian Chromosomal er Ovary (CHO) able data, the class utation study in ma ma cells able data, the class 78-93-3 utation study in bac	EC no. 926-605-8 sification criteria are not met. 200-662-2 eteria sification criteria are not met. Aberration Test sification criteria are not met. mmalian cells sification criteria are not met. 201-159-0
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, /classification one amination /classification amination /classification amination /classification amination /classification amination /classification amination	Based on availa	CAS no. 64742-49-0 cross able data, the class 67-64-1 utation study in bac nimurium able data, the class ulian Chromosomal er Ovary (CHO) able data, the class utation study in ma ma cells able data, the class 78-93-3 utation study in bac	EC no. 926-605-8 sification criteria are not met. 200-662-2 eteria sification criteria are not met. Aberration Test sification criteria are not met. mmalian cells sification criteria are not met. 201-159-0
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, /classification one amination /classification amination /classification amination /classification amination /classification amination /classification amination	Based on availation 5% n-hexane ECHA / Read a Based on availation in vitro gene mu Salmonella typi OECD 471 ECHA Based on availation in vitro gene mu Salmonella typi OECD 471 ECHA Based on availation OECD 473 ECHA Based on availation in vitro gene mu Mouse lymphon OECD 476 ECHA Based on availation in vitro gene mu Salmonella typi OECD 476 ECHA Based on availation OECD 476 ECHA Based on availation OECD 476 ECHA Based on availation Based on availation In vitro gene mu Salmonella typi OECD 471	CAS no. 64742-49-0 cross able data, the class 67-64-1 utation study in bac nimurium able data, the class ulian Chromosomal er Ovary (CHO) able data, the class utation study in ma ma cells able data, the class 78-93-3 utation study in bac	EC no. 926-605-8 sification criteria are not met. 200-662-2 eteria sification criteria are not met. Aberration Test sification criteria are not met. mmalian cells sification criteria are not met. 201-159-0
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, /classification one amination /classification /classification amination /classification /classification /classification /classification amination	Based on availation 5% n-hexane ECHA / Read a Based on availation in vitro gene mu Salmonella typi OECD 471 ECHA Based on availation in vitro gene mu Salmonella typi OECD 471 ECHA Based on availation OECD 473 ECHA Based on availation in vitro gene mu Mouse lymphon OECD 476 ECHA Based on availation in vitro gene mu Salmonella typi OECD 476 ECHA Based on availation OECD 476 ECHA Based on availation OECD 476 ECHA Based on availation Based on availation In vitro gene mu Salmonella typi OECD 471 ECHA	CAS no. 64742-49-0 cross able data, the class 67-64-1 utation study in bac nimurium able data, the class utation study in ma ma cells able data, the class 78-93-3 utation study in bac nimurium	EC no. 926-605-8 sification criteria are not met. 200-662-2 exteria sification criteria are not met. Aberration Test sification criteria are not met. mmalian cells sification criteria are not met. 201-159-0 exteria
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, /classification one amination /classification /classification amination /classification /classification amination /classification amination /classification amination /classification amination /classification amination /classification amination	Based on availation 5% n-hexane ECHA / Read a Based on availation in vitro gene mu Salmonella typh OECD 471 ECHA Based on availation In vitro gene mu Chinese hamst OECD 473 ECHA Based on availation In vitro gene mu Mouse lymphon OECD 476 ECHA Based on availation in vitro gene mu Mouse lymphon OECD 476 ECHA Based on availation OECD 476 ECHA Based on availation In vitro gene mu Salmonella typh OECD 471 ECHA Based on availation	Able data, the class CAS no. 64742-49-0 cross able data, the class 67-64-1 Jutation study in back inimurium able data, the class Jutation study in mark able data, the class Jutation study in mark able data, the class 78-93-3 Jutation study in back inimurium able data, the class 78-93-3	EC no. 926-605-8 sification criteria are not met. 200-662-2 exteria sification criteria are not met. Aberration Test sification criteria are not met. mmalian cells sification criteria are not met. 201-159-0 exteria
/classification mutagenicity stance name rocarbons, C6-C7, isoalkanes, cyclics, /classification one amination /classification /classification amination /classification /classification /classification /classification amination	Based on availation 5% n-hexane ECHA / Read a Based on availation in vitro gene mu Salmonella typh OECD 471 ECHA Based on availation In vitro gene mu Chinese hamst OECD 473 ECHA Based on availation In vitro gene mu Mouse lymphon OECD 476 ECHA Based on availation in vitro gene mu Mouse lymphon OECD 476 ECHA Based on availation OECD 476 ECHA Based on availation In vitro gene mu Salmonella typh OECD 471 ECHA Based on availation	CAS no. 64742-49-0 cross able data, the class 67-64-1 utation study in bac nimurium able data, the class utation study in ma ma cells able data, the class 78-93-3 utation study in bac nimurium	EC no. 926-605-8 sification criteria are not met. 200-662-2 exteria sification criteria are not met. Aberration Test sification criteria are not met. mmalian cells sification criteria are not met. 201-159-0 exteria
	stance name I-acetate (posure) one (posure) classification none (posure) an-2-ol	ECHA irritant Based on availa y or skin sensitisation stance name i-acetate guinea pig oECD 406 ECHA ECHA non-sensitizing one guinea pig oposure Skin guinea pig OECD 406 ECHA non-sensitizing one guinea pig classification Based on availa none Skin guinea pig OECD 406 ECHA non-sensitizing an-none Skin guinea pig OECD 406 ECHA non-sensitizing an-2-ol Skin guinea pig OECD 406 ECHA non-sensitizing	ECHA irritant Based on available data, the class y or skin sensitisation ECHA stance name CAS no. i-acetate 141-78-6 quinea pig OECD 406 ECHA non-sensitizing one 67-64-1 quinea pig ECHA classification Based on available data, the class guinea pig ECHA classification Based on available data, the class non-sensitizing Based on available data, the class none 78-93-3 quinea pig OECD 406 ECHA non-sensitizing an-2-ol 67-63-0 quinea pig OECD 406 ECHA non-sensitizing



Trade name: Armaflex 520

ent version : 13.0.0, issued: 31.03.2022	replaced	VEISIUII. 12.0.0, I	ssued: 27.01.2022 Regi
Source	ECHA		
		bla data tha alar	aifination aritaria are not mat
			sification criteria are not met.
	Mouse lymphor	lian cell gene mut	
	OECD 476	na Cells	
	ECHA		
		hle data the clos	sification criteria are not met.
			tudy: cytogenicity / erythrocyte micronucleus
	mouse	an somalic cell S	tady. Sytogeniony / erythrosyte micronucleus
	OECD 474		
	ECHA		
Evaluation/classification		ble data, the clas	sification criteria are not met.
4 propan-2-ol		67-63-0	200-661-7
	ECHA		
Evaluation/classification	Based on availa	ble data, the clas	sification criteria are not met.
Reproduction toxicity			
No Substance name		CAS no.	EC no.
1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%		64742-49-0	926-605-8
	ECHA / Read a		
	Based on availa		sification criteria are not met.
2 acetone	in head a firm of	67-64-1	200-662-2
	inhalational		2200
NOAEC	Dronotel Devision	nmontal Taviait	2200 ppm
		pmental Toxicity	Study
	rat OECD 414		
	ECHA		
Evaluation/classification		hle data the class	sification criteria are not met.
3 butanone		78-93-3	201-159-0
	inhalational	10-00-0	201-103-0
		pmental Toxicity	Study
	rat	princinal toxicity	Judy
•	OECD 414		
	ECHA		
		ble data, the clas	sification criteria are not met.
		,	
Carcinogenicity No Substance name		CAS no.	EC no.
1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	n-hexane	64742-49-0	926-605-8
Source	ECHA / Read a		
			sification criteria are not met.
2 acetone		67-64-1	200-662-2
	dermal		
	Toxicity study		
51	mouse		
	ECHA		
		ble data, the clas	sification criteria are not met.
Evaluation/classification			201-159-0
		78-93-3	201-139-0
3 butanone	ECHA	78-93-3	201-155-0
3 butanone Source			sification criteria are not met.
3 butanone Source Evaluation/classification			
3 butanone Source Evaluation/classification STOT - single exposure Store			
3 butanone Source Evaluation/classification STOT - single exposure No data available			
Source Evaluation/classification STOT - single exposure No data available STOT - repeated exposure		ble data, the clas	sification criteria are not met.
3 butanone Source Evaluation/classification STOT - single exposure No data available STOT - repeated exposure No Substance name Substance name	Based on availa	ble data, the clas	sification criteria are not met. EC no.
3 butanone Source Evaluation/classification STOT - single exposure No data available STOT - repeated exposure No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	Based on availa	CAS no. 64742-49-0	sification criteria are not met.
3 butanone Source Evaluation/classification STOT - single exposure No data available STOT - repeated exposure No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	Based on availa n-hexane ECHA / Read a	CAS no. 64742-49-0 cross	sification criteria are not met. EC no. 926-605-8
3 butanone Source Evaluation/classification STOT - single exposure No data available STOT - repeated exposure No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	Based on availa n-hexane ECHA / Read a	CAS no. 64742-49-0 cross ble data, the class	EC no. 926-605-8 sification criteria are not met.
3 butanone Source Evaluation/classification STOT - single exposure No data available STOT - repeated exposure No Substance name 1 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	Based on availa n-hexane ECHA / Read a Based on availa	CAS no. 64742-49-0 cross	sification criteria are not met. EC no. 926-605-8
3 butanone Source Evaluation/classification STOT - single exposure No data available STOT - repeated exposure No No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	Based on availa n-hexane ECHA / Read a	CAS no. 64742-49-0 cross ble data, the class	EC no. 926-605-8 sification criteria are not met. 200-662-2
3 butanone Source Evaluation/classification STOT - single exposure No No data available STOT - repeated exposure No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	Based on availa n-hexane ECHA / Read a Based on availa oral	CAS no. 64742-49-0 cross ble data, the class	EC no. 926-605-8 sification criteria are not met.
3 butanone Source Evaluation/classification STOT - single exposure No No data available STOT - repeated exposure No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	Based on availa n-hexane ECHA / Read a Based on availa oral rat	CAS no. 64742-49-0 cross ble data, the class	EC no. 926-605-8 sification criteria are not met. 200-662-2
3 butanone Source Evaluation/classification STOT - single exposure No No data available STOT - repeated exposure No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	Based on availa n-hexane ECHA / Read a Based on availa oral rat OECD 408	CAS no. 64742-49-0 cross ble data, the class	EC no. 926-605-8 sification criteria are not met. 200-662-2
3 butanone Source Evaluation/classification STOT - single exposure No No data available STOT - repeated exposure STOT - repeated exposure No Substance name Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	Based on availa n-hexane ECHA / Read a Based on availa oral rat OECD 408 ECHA	CAS no. 64742-49-0 cross ble data, the clas 67-64-1	EC no. 926-605-8 sification criteria are not met. 200-662-2 10000 ppm
3 butanone Source Evaluation/classification STOT - single exposure No data available STOT - repeated exposure No No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	Based on availa n-hexane ECHA / Read a Based on availa oral rat OECD 408 ECHA Based on availa	CAS no. 64742-49-0 cross ble data, the clas 67-64-1	EC no. 926-605-8 sification criteria are not met. 200-662-2
3 butanone Source Evaluation/classification STOT - single exposure No data available STOT - repeated exposure No No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	Based on availa n-hexane ECHA / Read a Based on availa oral rat OECD 408 ECHA	CAS no. 64742-49-0 cross ble data, the clas 67-64-1	EC no. 926-605-8 sification criteria are not met. 200-662-2 10000 ppm sification criteria are not met.
3 butanone Source Evaluation/classification STOT - single exposure No data available STOT - repeated exposure Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	Based on availa n-hexane ECHA / Read a Based on availa oral rat OECD 408 ECHA Based on availa	CAS no. 64742-49-0 cross ble data, the clas 67-64-1	EC no. 926-605-8 sification criteria are not met. 200-662-2 10000 ppm



Trade name: Armaflex 520

rrent version : 13.0.0, issued: 31.03.2022	Replaced version: 12.0.0, issued: 27.01.2022			
Evaluation/classification	Based on available data, the classification criteria are not met.	I		
3 butanone	78-93-3 201-159-0			
Route of exposure	inhalational			
Species	rat			
Method	OECD 413			
Source	ECHA			
Evaluation/classification	Based on available data, the classification criteria are not met.			
4 propan-2-ol	67-63-0 200-661-7			
Route of exposure	inhalational			
Source	ECHA			
Evaluation/classification	Based on available data, the classification criteria are not met.			
Aspiration hazard				

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

11.2 Information on other hazards

Endocrine disrupting properties No data available. Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)					
No Substance name		CAS no.		EC no.	
1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <	<5% n-hexane	64742-49-0		926-605-8	
LL50			12	mg/l	
Duration of exposure			96	h	
Species	Oncorhynchu	ıs mykiss			
Method	OECD 203	-			
Source	ECHA				
2 ethyl-acetate		141-78-6		205-500-4	
LC50			220	mg/l	
Duration of exposure			96	h	
Species	Pimephales p	oromelas			
Source	ECHA				
3 acetone		67-64-1		200-662-2	
LC50			5540	mg/l	
Duration of exposure			96	h	
Species	Oncorhynchu	ıs mykiss			
Source	ECHA				
Evaluation/classification	Based on ava	ailable data, the cla	assification crit		
4 butanone		78-93-3		201-159-0	
LC50			2993	mg/l	
Duration of exposure			96	h	
Species	Pimephales p	promelas			
Method	OECD 203				
Source	ECHA				
5 propan-2-ol		67-63-0		200-661-7	
LC50			9640	mg/l	
Duration of exposure	D		96	h	
Species	Pimephales p	promelas			
Method	OECD 203				
Source	ECHA				
Toxicity to fish (chronic)					
No data available					
Toxicity to Daphnia (acute)					
, ,		CAS no.		EC no	
No Substance name 1 ethyl-acetate		<u> </u>		EC no. 205-500-4	
EC50		141-/0-0	1350		
Duration of exposure			48	mg/l h	
Species	Daphnia mag	ina	40	11	
Source	ECHA	ji iu			
2 acetone		67-64-1		200-662-2	
EC50		07-04-1	8800	mg/l	
Duration of exposure			48	h	
Species	Daphnia pule	v	40	11	
00000		~			



Trade name: Armaflex 520

Course	FOUN			
Source	ECHA Basad an available de			
Evaluation/classification 3 butanone	Based on available da 78-93		201-159-0	
EC50	10-33	- 3 308	mg/l	
Duration of exposure		48	h	
Species	Daphnia magna			
Method	OECD 202			
Source	ECHA			
4 propan-2-ol	67-63		200-661-7	
EC50	>	10000 24	mg/l h	
Duration of exposure Species	Daphnia magna	24	11	
Method	OECD 202			
Source	ECHA			
Toxicity to Daphnia (chronic)				
No data available				
Toxicity to algae (acute)				
No Substance name	CAS	10	EC no.	
1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%			926-605-8	
EL50		26	mg/l	
Duration of exposure		72	h	
Species	Pseudokirchneriella su	ubcapitata		
Method	OECD 201			
Source 2 butanone	ECHA 78-93	_3	201-159-0	
EC50	10-95	2029		
Duration of exposure		96	h	
Species	Pseudokirchneriella su			
Method	OECD 201			
Source	ECHA			
No data available Bacteria toxicity				
No data available Bacteria toxicity No data available 2 Persistence and degradability				
No data available Bacteria toxicity No data available 2 Persistence and degradability Biodegradability				
No data available Bacteria toxicity No data available 2 Persistence and degradability Biodegradability No Substance name	CAS		EC no.	
No data available Bacteria toxicity Bacteria toxicity No data available 2 Persistence and degradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	n-hexane 64742	2-49-0	EC no. 926-605-8	
1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% Type		2-49-0 າ	926-605-8	
No data available Bacteria toxicity Bacteria toxicity No data available 2 Persistence and degradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	n-hexane 64742	2-49-0	926-605-8 %	
No data available Bacteria toxicity Bacteria toxicity No data available 2 Persistence and degradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	o n-hexane 64742 aerobic biodegradation OECD 301 F	2 -49-0 1 98	926-605-8	
No data available Bacteria toxicity No data available 2 Persistence and degradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	o n-hexane 64742 aerobic biodegradation OECD 301 F ECHA	2 -49-0 1 98	926-605-8 %	
No data available Bacteria toxicity No data available 2 Persistence and degradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	o n-hexane 64742 aerobic biodegradation OECD 301 F ECHA readily degradable	2 -49-0 1 98 28	926-605-8 % day(s)	
No data available Bacteria toxicity No data available No data available 2 Persistence and degradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	 n-hexane 64742 aerobic biodegradation OECD 301 F ECHA readily degradable 141-7 	2 -49-0 1 98 28	926-605-8 %	
No data available Bacteria toxicity No data available 2 Persistence and degradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	o n-hexane 64742 aerobic biodegradation OECD 301 F ECHA readily degradable	2-49-0 98 28 8-6	926-605-8 % day(s) 205-500-4	
No data available Bacteria toxicity No data available 2 Persistence and degradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	h-hexane 64742 aerobic biodegradation OECD 301 F ECHA readily degradable 141-7 COD	2 -49-0 1 98 28	926-605-8 % day(s)	
No data available Bacteria toxicity No data available 2 Persistence and degradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	 n-hexane 64742 aerobic biodegradation OECD 301 F ECHA readily degradable 141-7 	2-49-0 98 28 8-6	926-605-8 % day(s) 205-500-4	
No data available Bacteria toxicity No data available 2 Persistence and degradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	orbic biodegradation oecd arrows biodegradation oecd arrows biodegradation oecd arrows biodegradable techa readily biodegradable echa readily biodegradable 67-64	2-49-0 98 28 8-6 1.69 -1	926-605-8 % day(s) 205-500-4	
No data available Bacteria toxicity No data available 2 Persistence and degradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	orbic biodegradation oECD 301 F ECHA readily degradable Identification ECHA readily biodegradable	2-49-0 98 28 8-6 1.69 -1	926-605-8 % day(s) 205-500-4 g O2/g 200-662-2	
No data available Bacteria toxicity No data available 2 Persistence and degradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	orbic biodegradation oecd arrows biodegradation oecd arrows biodegradation oecd arrows biodegradable techa readily biodegradable echa readily biodegradable 67-64	2-49-0 98 28 8-6 1.69 -1 90.9	926-605-8 % day(s) 205-500-4 g O2/g 200-662-2 %	
No data available Bacteria toxicity No data available No data available 2 Persistence and degradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	n-hexane 64742 aerobic biodegradation OECD 301 F ECHA readily degradable 141-7 COD ECHA readily biodegradable 67-64 aerobic biodegradation	2-49-0 98 28 8-6 1.69 -1	926-605-8 % day(s) 205-500-4 g O2/g 200-662-2	
No data available Bacteria toxicity No data available 2 Persistence and degradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	h-hexane 64742 aerobic biodegradation OECD 301 F ECHA readily degradable 141-7 COD ECHA readily biodegradable 67-64 aerobic biodegradation OECD 301 B	2-49-0 98 28 8-6 1.69 -1 90.9	926-605-8 % day(s) 205-500-4 g O2/g 200-662-2 %	
No data available Bacteria toxicity No data available 2 Persistence and degradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <59	h-hexane 64742 aerobic biodegradation OECD 301 F ECHA readily degradable 141-7 COD ECHA readily biodegradable 67-64 aerobic biodegradation OECD 301 B ECHA	2-49-0 98 28 8-6 1.69 -1 90.9	926-605-8 % day(s) 205-500-4 g O2/g 200-662-2 %	
No data available Bacteria toxicity No data available 2 Persistence and degradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <59	h-hexane 64742 aerobic biodegradation OECD 301 F ECHA readily degradable 141-7 COD ECHA readily biodegradable 67-64 aerobic biodegradation OECD 301 B	2-49-0 98 28 8-6 1.69 -1 90.9 28	926-605-8 % day(s) 205-500-4 g O2/g 200-662-2 %	
No data available Bacteria toxicity No data available Persistence and degradability Biodegradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <59	 n-hexane 64742 aerobic biodegradation OECD 301 F ECHA readily degradable 141-7 COD ECHA readily biodegradable 67-64 aerobic biodegradation OECD 301 B ECHA readily biodegradable 67-64 	2-49-0 98 28 8-6 1.69 -1 90.9 28 -3	926-605-8 % day(s) 205-500-4 g O2/g 200-662-2 % day(s) 201-159-0	
No data available Bacteria toxicity No data available 2 Persistence and degradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	 n-hexane 64742 aerobic biodegradation OECD 301 F ECHA readily degradable 141-7 COD ECHA readily biodegradable 67-64 aerobic biodegradation OECD 301 B ECHA readily biodegradable 78-93 	2-49-0 98 28 8-6 1.69 -1 90.9 28 -3 1 98	926-605-8 % day(s) 205-500-4 g O2/g 200-662-2 % day(s) 201-159-0 %	
No data available Bacteria toxicity No data available 2 Persistence and degradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	A n-hexane 64742 A crobic biodegradation OECD 301 F ECHA readily degradable 141-7 COD ECHA readily biodegradable 67-64 aerobic biodegradation OECD 301 B ECHA readily biodegradable 78-93 aerobic biodegradation	2-49-0 98 28 8-6 1.69 -1 90.9 28 -3 n	926-605-8 % day(s) 205-500-4 g O2/g 200-662-2 % day(s) 201-159-0	
No data available Bacteria toxicity No data available 2 Persistence and degradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	A n-hexane 64742 Aerobic biodegradation OECD 301 F ECHA readily degradable 141-7 COD ECHA readily biodegradable 67-64 Aerobic biodegradation OECD 301 B ECHA readily biodegradable 78-93 Aerobic biodegradation OECD 301 D	2-49-0 98 28 8-6 1.69 -1 90.9 28 -3 1 98	926-605-8 % day(s) 205-500-4 g O2/g 200-662-2 % day(s) 201-159-0 %	
No data available Bacteria toxicity No data available 2 Persistence and degradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <59	A n-hexane 64742 A n-hexane 64742 A normal set of the	2-49-0 98 28 8-6 1.69 -1 90.9 28 -3 1 98	926-605-8 % day(s) 205-500-4 g O2/g 200-662-2 % day(s) 201-159-0 %	
No data available Bacteria toxicity No data available 2 Persistence and degradability Biodegradability No Substance name 1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	A n-hexane 64742 Aerobic biodegradation OECD 301 F ECHA readily degradable 141-7 COD ECHA readily biodegradable 67-64 Aerobic biodegradation OECD 301 B ECHA readily biodegradable 78-93 Aerobic biodegradation OECD 301 D	2-49-0 98 28 8-6 1.69 -1 1 90.9 28 -3 1 98 28	926-605-8 % day(s) 205-500-4 g O2/g 200-662-2 % day(s) 201-159-0 %	



Trade name: Armaflex 520

Label

Environmentally hazardous

Cur	rent version : 13.0.0, issued: 31.03.2022	Replac	ced version: 12.0	.0, issued: 27.0	1.2022	Region: GB
	Duration Source Evaluation	ECHA readily biod	egradable	5	day(s)	
12	.3 Bioaccumulative potential Partition coefficient n-octanol/water (log va	lue)				
	No Substance name	,	CAS no.		EC no.	
	1 ethyl-acetate		141-78-6		205-500-4	
	log Pow Reference temperature Source	ECHA		0.68 25	°C	
•	2 acetone		67-64-1		200-662-2	
	log Pow Method Source	QSAR ECHA		-0.23		
	3 butanone	2011/1	78-93-3		201-159-0	
	log Pow Reference temperature			0.3 40	°C	
	Method	OECD 117				
	Source 4 propan-2-ol	ECHA	67-63-0		200-661-7	
	log Pow		07-03-0	0.05	200-001-7	
	Reference temperature			25	°C	
	Source	ECHA				
12	.4 Mobility in soil No data available.					
12	.5 Results of PBT and vPvB assessn Results of PBT and vPvB assessment	nent				
	PBT assessment	The compo	nents of this produ	uct are not cons	idered to be a PBT.	
	vPvB assessment	The compo	nents of this produ	uct are not cons	idered 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.			
SE	ECTION 13: Disposal consideration	· · ·				
13	.1 Waste treatment methods					
	ProductWaste code08 04 09	* waste adhe substances		ts containing or	ganic solvents or other ha	azardous
	Allocation of a waste code number, accord waste disposal company. dispose of in accordance with local regula	- ·	Vaste Catalogue, s	should be carrie	d out in agreement with t	he regional
	Packaging Waste code 15 01 10	* packaging			inated by hazardous subs	
	Residues must be removed from packagin removal. Incompletely emptied packaging					
	ECTION 14: Transport information					
14						
	Class					
		=1				
	55 1	l 33				
		JN1133				
		ADHESIVES				
	1 11 0	640D				
		D/E				

3 Symbol "fish and tree"



Trade name: Armaflex 520

Current version : 13.0.0, issued: 31.03.2022

Replaced version: 12.0.0, issued: 27.01.2022

Region: GB

substance mark

14.2 Transport IMDG

Class	3
Packing group	II
UN number	UN1133
Proper shipping name	ADHESIVES
Technical name	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
EmS	F-E, S-D
Label	3
Marine pollutant mark	Symbol "fish and tree"
	-

14.3 Transport ICAO-TI / IATA

Class	3
Packing group	11
UN number	UN1133
Proper shipping name	Adhesives
Label	3

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please 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.

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 EU regulations

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.

The I	product is considered being subject to REACH regu	6, MIXTURES AND ARTICLES lation (EC) 1907/2006 annex XVII.		No 3.40
	product contains following substance(s) that are cor		gulation (EC) 1907/2006	6 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	ethyl-acetate	141-78-6	205-500-4	75
4	propan-2-ol	67-63-0	200-661-7	75
5	Rosin; colophony	8050-09-7	232-475-7	75
6	Talc	14807-96-6	238-877-9	75
Dire	ctive 2012/18/EU on the control of major-accide	nt hazards involving dangerous su	ubstances	
This	product is subject to Part I of Annex I, risk category		E2, P5b	
	properties of the substance/product give rise to mo		poses of 2012/18/UE, t	he lowest qualifying
auan	tities set out in Part 1 and Part 2 of Annex I shall ap	piy.		

15.2 Chemical safety assessment

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

SECTION 16: Other information

Further information



Trade name: Armaflex 520

Current version: 13.0.0, issued: 31.03.2022

Replaced version: 12.0.0, issued: 27.01.2022

Region: GB

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.

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) 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)

May be fatal if swallowed and enters airways. May cause an allergic skin reaction.

Alterations/supplements:

H304

H317

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

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