

Trade name: Armaflex HT625

Current version : 6.0.0, issued: 01.02.2022

Replaced version: 5.1.0, issued: 05.08.2021

Region: GB

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

1.1 Product identifier

Trade name

Armaflex HT625

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 (except Armaflex Ultima)

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

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 Chronic 2; H411

Eye Irrit. 2; H319

Flam. Liq. 2; H225

Skin Irrit. 2; H315

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



GHS02



GHS07



GHS09

Signal word

Danger

Hazardous component(s) to be indicated on label:

ethyl-acetate

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

Trade name: Armaflex HT625

Current version : 6.0.0, issued: 01.02.2022

Replaced version: 5.1.0, issued: 05.08.2021

Region: GB

butanone
Hydrocarbons, C6, isoalkanes, <5% n-hexane

Hazard statement(s)

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Hazard statements (EU)

EUH208 Contains 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 dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards

Vapours can form an explosive mixture with air.

PBT assessment
No data available.

vPvB assessment
No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

No	Substance name	Classification (EC) 1272/2008 (CLP)	Additional information	%
	CAS / EC / Index / REACH no		Concentration	
1	ethyl-acetate			
	141-78-6 205-500-4 607-022-00-5 01-2119475103-46	EUH066 Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336	>= 25.00 - < 50.00	wt%
2	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane			
	64742-49-0 921-024-6 - 01-2119475514-35	Aquatic Chronic 2; H411 Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304	>= 10.00 - < 25.00	wt%
3	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	>= 10.00 - < 25.00	wt%
4	Hydrocarbons, C6, isoalkanes, <5% n-hexane			
	64742-49-0 931-254-9 - 01-2119484651-34	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	>= 5.00 - < 10.00	wt%
5	Colophony			
	8050-09-7 232-475-7 650-015-00-7 -	Skin Sens. 1; H317	< 1.00	wt%
6	zinc oxide			
	1314-13-2 215-222-5 030-013-00-7 -	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 1.00	wt%

Trade name: Armaflex HT625

Current version : 6.0.0, issued: 01.02.2022

Replaced version: 5.1.0, issued: 05.08.2021

Region: GB

Full Text for all H-phrases and EUH-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.

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). Seek medical assistance.

After ingestion

Do not induce vomiting. Rinse the mouth thoroughly with water. Let plenty of water be drunk in small gulps. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

Irritating to eyes, respiratory system and skin. Light-headedness; Dizziness; Headache; Nausea

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

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 monoxide (CO); Carbon dioxide (CO₂); Hydrogen chloride (HCl)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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.

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). Do not keep the container sealed.

6.4 Reference to other sections

No data available.

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.

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. Do

Trade name: Armaflex HT625

Current version : 6.0.0, issued: 01.02.2022

Replaced version: 5.1.0, issued: 05.08.2021

Region: GB

not inhale vapours. Avoid contact with eyes and skin.

Advice on protection against fire and explosion

Keep away from sources of ignition - refrain from smoking. Take precautionary measures against static charges. Use explosion-proof equipment/fittings and non-sparking tools. Vapours can form an explosive mixture with air. Vapours are heavier than air and may spread along floors. Heating up leads to increase of pressure - danger of bursting.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep under lock and key or accessible only to specialists or people who are authorized. Protect from heat and direct sunlight.

Recommended storage temperature

Value 15 - 30 °C

Storage stability

Value max. 18 months

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.

Appropriate Material stainless steel

Incompatible products

Do not store together with: oxidizing agents

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/m ³	400 ppm
	WEL long-term (8-hr TWA reference period)	734 mg/m ³	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	butanone	78-93-3	201-159-0
	2000/39/EC		
	Butanone		
	WEL short-term (15 min reference period)	900 mg/m ³	300 ppm
	WEL long-term (8-hr TWA reference period)	600 mg/m ³	200 ppm
	List of approved workplace exposure limits (WELs) / EH40		
	Butan-2-one		
	WEL short-term (15 min reference period)	899 mg/m ³	300 ppm
	WEL long-term (8-hr TWA reference period)	600 mg/m ³	200 ppm
	Comments	Sk, BMGV	
3	Colophony	8050-09-7	232-475-7
	List of approved workplace exposure limits (WELs) / EH40		
	Rosin-based solder flux fume		
	WEL short-term (15 min reference period)	0.15 mg/m ³	
	WEL long-term (8-hr TWA reference period)	0.05 mg/m ³	
	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	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
	inhalative	Long term (chronic)	systemic	734	mg/m ³

Trade name: Armaflex HT625

Current version : 6.0.0, issued: 01.02.2022

Replaced version: 5.1.0, issued: 05.08.2021

Region: GB

2	butanone			78-93-3 201-159-0
	dermal	Long term (chronic)	systemic	1161 mg/kg/day
	inhalative	Long term (chronic)	systemic	600.00 mg/m ³
3	Hydrocarbons, C6, isoalkanes, <5% n-hexane			64742-49-0 931-254-9
	dermal	Long term (chronic)	systemic	13964 mg/kg/day
	inhalative	Long term (chronic)	systemic	5306 mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no
	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	Short term (acut)	systemic	734 mg/m ³
	inhalative	Long term (chronic)	local	367 mg/m ³
	inhalative	Short term (acut)	local	734 mg/m ³
	inhalative	Long term (chronic)	systemic	367 mg/m ³
2	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/m ³
3	Hydrocarbons, C6, isoalkanes, <5% n-hexane			64742-49-0 931-254-9
	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/m ³

PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	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	Aqua intermittent	1.65 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	-	200 mg/kg
2	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		

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 A2/P2

Eye / face protection

Trade name: Armaflex HT625

Current version : 6.0.0, issued: 01.02.2022

Replaced version: 5.1.0, issued: 05.08.2021

Region: GB

Safety glasses with side protection shield (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 nitrile

Other

Chemical-resistant work clothes. 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			
liquid			
Form/Colour			
liquid			
colourless			
Odour			
like solvents			
pH value			
No data available			
Boiling point / boiling range			
Value	56	°C	
Reference substance	Naphtha		
Melting point/freezing point			
No data available			
Decomposition temperature			
No data available			
Flash point			
Value	-26	°C	
Reference substance	Naphtha		
Ignition temperature			
No data available			
Flammability			
No data available			
Lower explosion limit			
Value	1	% vol	
Reference substance	Naphtha		
Upper explosion limit			
Value	12.8	% vol	
Reference substance	Ethyl acetate		
Vapour pressure			
Value	21	kPa	
Reference temperature	20	°C	
Reference substance	Naphtha		
Relative vapour density			
No data available			
Relative density			
No data available			
Density			
Value	appr. 0.84	g/cm ³	
Reference temperature	20	°C	
Solubility in water			
Comments	immiscible		
Solubility			

Trade name: Armaflex HT625

Current version : 6.0.0, issued: 01.02.2022

Replaced version: 5.1.0, issued: 05.08.2021

Region: GB

No data available			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
log Pow		6.8	
Reference temperature		25 °C	
Source		ECHA	
2	butanone	78-93-3	201-159-0
log Pow		0.3	
Reference temperature		40 °C	
Method		OECD 117	
Source		ECHA	
Viscosity			
Value		appr.	450 mPa*s
Reference temperature		20 °C	
Type		dynamic	
Solvent content			
Value		appr.	82 %
Solids content			
Value		appr.	18 %
Particle characteristics			
No data available			

9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Protect from heat and direct sunlight.

10.5 Incompatible materials

strong oxidizing agents

10.6 Hazardous decomposition products

None, if handled according to intended use.

SECTION 11: Toxicological information

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

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
LD50		>	5600 mg/kg bodyweight
Species		rat	
Source		ECHA	
2	butanone	78-93-3	201-159-0
LD50		2054 mg/kg bodyweight	
Species		rat	
Method		OECD 423	
Source		ECHA / Read across	
3	Hydrocarbons, C6, isoalkanes, <5% n-hexane	64742-49-0	931-254-9
LD50		16750 mg/kg bodyweight	
Species		rat	
Method		OECD 401	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Trade name: Armaflex HT625

Current version : 6.0.0, issued: 01.02.2022

Replaced version: 5.1.0, issued: 05.08.2021

Region: GB

4	zinc oxide	1314-13-2	215-222-5
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

Acute dermal toxicity

No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
LD50	>	20000	mg/kg bodyweight
Species	rabbit		
Source	ECHA		
2	Hydrocarbons, C6, isoalkanes, <5% n-hexane	64742-49-0	931-254-9
LD50	>	3350	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Acute inhalational toxicity

No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0	921-024-6
LC50	>	25.2	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Source	ECHA		
2	Hydrocarbons, C6, isoalkanes, <5% n-hexane	64742-49-0	931-254-9
LC50		259.3	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Skin corrosion/irritation

No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	low-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0	921-024-6
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	irritant		
3	butanone	78-93-3	201-159-0
Duration of exposure		4	h
Species	rabbit		
Method	OECD 404		
Source	ECHA / Read across		
Evaluation	non-irritant		

Serious eye damage/irritation

No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	low-irritant		
2	butanone	78-93-3	201-159-0
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		
3	Hydrocarbons, C6, isoalkanes, <5% n-hexane	64742-49-0	931-254-9

Trade name: Armaflex HT625

Current version : 6.0.0, issued: 01.02.2022

Replaced version: 5.1.0, issued: 05.08.2021

Region: GB

Duration of exposure	72 h
Species	rabbit
Method	OECD 405
Source	ECHA
Evaluation	non-irritant
Evaluation/classification	Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
Route of exposure		Skin	
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
2	butanone	78-93-3	201-159-0
Route of exposure		Skin	
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
3	Hydrocarbons, C6, isoalkanes, <5% n-hexane	64742-49-0	931-254-9
Route of exposure		Skin	
Species	mouse		
Method	OECD 429		
Source	ECHA		
Evaluation	non-sensitizing		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	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		
Method	OECD 476		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	In vivo mammalian somatic cell study: cytogenicity / erythrocyte micronucleus		
Species	mouse		
Method	OECD 474		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	Hydrocarbons, C6, isoalkanes, <5% n-hexane	64742-49-0	931-254-9
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
Route of exposure		inhalational	
Type of examination	Prenatal Developmental Toxicity Study		
Species	rat		
Method	OECD 414		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	Hydrocarbons, C6, isoalkanes, <5% n-hexane	64742-49-0	931-254-9
Route of exposure		inhalational	
NOAEC		9000	ppm
Duration of exposure		13	week/s
Type of examination	2 generation study		
Species	rat		

Trade name: Armaflex HT625

Current version : 6.0.0, issued: 01.02.2022

Replaced version: 5.1.0, issued: 05.08.2021

Region: GB

Method	OECD 416
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	Hydrocarbons, C6, isoalkanes, <5% n-hexane	64742-49-0	931-254-9
Route of exposure		inhalational	
NOAEC		9018	ppm
Duration of exposure		2	year(s)
Species		mouse	
Method		OECD 451	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

STOT - single exposure	
No data available	

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0	921-024-6
Route of exposure		inhalational	
NOAEC		14000	mg/m ³
Species		rat	
Source		ECHA	
2	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.	
3	Hydrocarbons, C6, isoalkanes, <5% n-hexane	64742-49-0	931-254-9
Route of exposure		inhalational	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Aspiration hazard	
No data available	

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	ethyl-acetate	141-78-6	205-500-4
LC50		230	mg/l
Duration of exposure		96	h
Species		Pimephales promelas	
Source		ECHA	
2	butanone	78-93-3	201-159-0
LC50		2993	mg/l
Duration of exposure		96	h
Species		Pimephales promelas	
Method		OECD 203	
Source		ECHA	

Toxicity to fish (chronic)	
No data available	

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.

Trade name: Armaflex HT625

Current version : 6.0.0, issued: 01.02.2022

Replaced version: 5.1.0, issued: 05.08.2021

Region: GB

1	ethyl-acetate	141-78-6	205-500-4
EC50		1350	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	ECHA		
2	butanone	78-93-3	201-159-0
EC50		308	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
EC50		2029	mg/l
Duration of exposure		96	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
Source	ECHA		
Evaluation	readily biodegradable		
2	butanone	78-93-3	201-159-0
Type	aerobic biodegradation		
Value		98	%
Duration		28	day(s)
Method	OECD 301 D		
Source	ECHA		
Evaluation	readily biodegradable		

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
log Pow		6.8	
Reference temperature		25	°C
Source	ECHA		
2	butanone	78-93-3	201-159-0
log Pow		0.3	
Reference temperature		40	°C
Method	OECD 117		
Source	ECHA		

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	No data available.
vPvB assessment	No data available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

Trade name: Armaflex HT625

Current version : 6.0.0, issued: 01.02.2022

Replaced version: 5.1.0, issued: 05.08.2021

Region: GB

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.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

Class 3
Classification code F1
Packing group II
Hazard identification no. 33
UN number UN1133
Proper shipping name ADHESIVES
Special Provision 640 640D
Tunnel restriction code D/E
Label 3
Environmentally hazardous substance mark Symbol "fish and tree"

14.2 Transport IMDG

Class 3
Packing group II
UN number UN1133
Proper shipping name ADHESIVES
Technical name Hydrocarbons, C6-C7, n-alkanes, 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 II
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

No data available.

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

Trade name: Armaflex HT625

Current version : 6.0.0, issued: 01.02.2022

Replaced version: 5.1.0, issued: 05.08.2021

Region: GB

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

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3, 40

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

This product is subject to Part I of Annex I, risk category: E2, 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 82 %

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

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

SECTION 16: Other information

Further information

Authors responsible for the compilation of the material safety data sheet: UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de.

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

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)

EUH066 Repeated exposure may cause skin dryness or cracking.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Alterations/supplements:

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

Document protected by copyright. Alterations or reproductions require the express written permission of UMCO GmbH.

Prod-ID 636625