

Trade name: Armaflex Cleaner

Current version : 5.0.0, issued: 06.08.2021

Replaced version: 4.0.0, issued: 27.04.2021

Region: GB

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

1.1 Product identifier

Trade name

Armaflex Cleaner

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

Relevant identified uses of the substance or mixture

designed for cleaning surfaces/substrates before applying Armaflex glues and cleaning tools (except Armaflex SF990 and Armaflex Ultima SF990)

For industrial and professional use only

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

Armacell GmbH
Robert-Bosch-Straße 10
48153 Münster

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 3; H412

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)

Hazard pictograms



GHS02



GHS07

Signal word

Danger

Hazardous component(s) to be indicated on label:

ethyl-acetate

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Hazard statement(s)

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H412 Harmful to aquatic life with long lasting effects.

Hazard statements (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P391 Collect spillage.
 P501 Dispose of contents/container to a facility in accordance with local and national regulations.

2.3 Other hazards

Vapours can form an explosive mixture with air.
 PBT assessment
 The components of this product are not considered to be a PBT.
 vPvB assessment
 The components of this product are not considered to be a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	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	>= 70.00 - < 90.00	wt%
2	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%
3	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane			
	64742-49-0 926-605-8 - 01-2119486291-36	Aquatic Chronic 2; H411 Asp. Tox. 1; H304 Flam. Liq. 2; H225 STOT SE 3; H336 EUH066	>= 5.00 - < 10.00	wt%

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. 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). Seek medical assistance.

After ingestion

Do not induce vomiting. Rinse the mouth thoroughly with water. Never give anything by mouth to an unconscious person. Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

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Symptoms

Irritating to eyes, respiratory system and skin. Breathing difficulties; Coughing; Light-headedness; Dizziness; Headache; Nausea; reddening of the skin; blistering

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); Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back.

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. Ensure adequate ventilation. Use personal protective clothing. Avoid contact with skin, eyes and clothing.

For emergency responders

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

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).

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 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. No sparking tools should be used.

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

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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	n-hexane	110-54-3	203-777-6
	2006/15/EC		
	n-Hexane		
	WEL long-term (8-hr TWA reference period)	72	mg/m ³ 20 ppm
	List of approved workplace exposure limits (WELs) / EH40		
	n-Hexane		
	WEL long-term (8-hr TWA reference period)	72	mg/m ³ 20 ppm
4	cyclohexane	110-82-7	203-806-2
	2006/15/EC		
	Cyclohexane		
	WEL long-term (8-hr TWA reference period)	700	mg/m ³ 200 ppm
	List of approved workplace exposure limits (WELs) / EH40		
	Cyclohexane		
	WEL short-term (15 min reference period)	1050	mg/m ³ 300 ppm
	WEL long-term (8-hr TWA reference period)	350	mg/m ³ 100 ppm

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name	CAS / EC no
1	ethyl-acetate	141-78-6 205-500-4
	Route of exposure	Value
	Exposure time	
	Effect	
	dermal	Long term (chronic) systemic 63 mg/kg/day
	inhalative	Short term (acute) systemic 1468 mg/m ³
	inhalative	Long term (chronic) local 734 mg/m ³
	inhalative	Short term (acute) local 1468 mg/m ³
	inhalative	Long term (chronic) systemic 734 mg/m ³
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-C7, isoalkanes, cyclics, <5% n-hexane	64742-49-0 926-605-8
	dermal	Long term (chronic) systemic 13964 mg/kg/day
	inhalative	Long term (chronic) systemic 5306 mg/m ³

DNEL value (consumer)

No	Substance name	CAS / EC no
1	ethyl-acetate	141-78-6 205-500-4
	Route of exposure	Value
	Exposure time	
	Effect	
	oral	Long term (chronic) systemic 4.5 mg/kg/day
	dermal	Long term (chronic) systemic 37 mg/kg/day

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	inhalative	Short term (acute)	systemic	734	mg/m ³
	inhalative	Long term (chronic)	local	367	mg/m ³
	inhalative	Short term (acute)	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-C7, isoalkanes, cyclics, <5% n-hexane			64742-49-0 926-605-8	
	oral	Long term (chronic)	systemic	1301	mg/kg/day
	dermal	Long term (chronic)	systemic	1377	mg/kg/day
	inhalative	Long term (chronic)	systemic	1131	mg/m ³

PNEC values

No	Substance name	ecological compartment	Type	CAS / EC no	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 insufficient ventilation and during spray application respiratory protection necessary. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respirator A-P2

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	neoprene		
Appropriate Material	nitrile rubber		
Material thickness	>	0.7	mm
Breakthrough time	>	60	min

Other

Chemical-resistant work clothes.

Environmental exposure controls

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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	appr.	70	°C
Melting point/freezing point			
No data available			
Decomposition temperature			
No data available			
Flash point			
Value	appr.	-20	°C
Method	Cleveland closed cup		
Ignition temperature			
No data available			
Auto-ignition temperature			
Value		274	°C
Flammability			
No data available			
Lower explosion limit			
Value		1	% vol
Upper explosion limit			
Value		13	% vol
Vapour pressure			
Value	<	1100	hPa
Reference temperature		50	°C
Relative vapour density			
No data available			
Relative density			
No data available			
Density			
Value	appr.	0.9	g/cm ³
Reference temperature		20	°C
Solubility			
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	<	21	mm ² /s
Reference temperature		40	°C

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Particle characteristics

No data available

9.2 Other information

Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

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

None known

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		
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		
Acute inhalational toxicity			
No data available			
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	butanone	78-93-3	201-159-0
Duration of exposure		4	h
Species	rabbit		
Method	OECD 404		
Source	ECHA / Read across		
Evaluation	non-irritant		
3	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	64742-49-0	926-605-8
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		

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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	
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	
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-C7, isoalkanes, cyclics, <5% n-hexane	64742-49-0	926-605-8
Source		ECHA / Read across	
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-C7, isoalkanes, cyclics, <5% n-hexane	64742-49-0	926-605-8
Source		ECHA / Read across	
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

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Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	64742-49-0	926-605-8
Source	ECHA / Read across		
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	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.		
2	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	64742-49-0	926-605-8
Source	ECHA / Read across		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Aspiration hazard			
No data available			
Delayed and immediate effects as well as chronic effects from short and long-term exposure			
Inhalation of the vapours causes irritation of the respiratory tract and mucous membrane, headaches, nausea, giddiners, vomiting.			

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		
3	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	64742-49-0	926-605-8
LL50		12	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
Toxicity to fish (chronic)			
No data available			
Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
EC50		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		

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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		
2	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	64742-49-0	926-605-8
EL50		26	mg/l
Duration of exposure		72	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		
3	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	64742-49-0	926-605-8
Type	aerobic biodegradation		
Value		98	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily degradable		

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

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

Trade name: Armaflex Cleaner

Current version : 5.0.0, issued: 06.08.2021

Replaced version: 4.0.0, issued: 27.04.2021

Region: GB

No data available.

12.8 Other information

Other information

Do not discharge product unmonitored into the environment.
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

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

Packaging

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	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Technical name	ethyl-acetate butanone
Special Provision 640	640D
Tunnel restriction code	D/E
Label	3

14.2 Transport IMDG

Class	3
Packing group	II
UN number	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Technical name	ethyl-acetate butanone
EmS	F-E, S-E
Label	3

14.3 Transport ICAO-TI / IATA

Class	3
Packing group	II
UN number	UN1993
Proper shipping name	Flammable liquid, n.o.s.
Technical name	ethyl-acetate butanone
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.

Trade name: Armaflex Cleaner

Current version : 5.0.0, issued: 06.08.2021

Replaced version: 4.0.0, issued: 27.04.2021

Region: GB

REACH candidate list of substances of very high concern (SVHC) for authorisation	
According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.	
Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES	
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:	P5b
Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)	
VOC content	<=900 g/l
VOC content	100 %

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for one or more of the substances within 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)

H304 May be fatal if swallowed and enters airways.
 H411 Toxic to aquatic life with long lasting effects.

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 Prod-ID 636648