Current version: 3.2.0, issued: 04.01.2019 Replaced version: 3.1.3. issued: 30.08.2018 Region: GB

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

#### **Product identifier**

Trade name

#### **Armaflex Ultima 700**

#### 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 Armaflex Ultima and all other synthetic rubber based Armaprene materials

#### 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 +49 (0) 251 - 7603-561 Fax no. 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

#### 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) nº 1272/2008: Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

#### 2.2 Label elements

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

#### **Hazard pictograms**







Signal word Danger

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

ethyl-acetate

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

Current version: 3.2.0, issued: 04.01.2019 Replaced version: 3.1.3, issued: 30.08.2018 Region: GB

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

Current version: 3.2.0, issued: 04.01.2019 Replaced version: 3.1.3, issued: 30.08.2018 Region: GB

## **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 /	Classification (EC) 1272/2008 (CLP)	Concer	ntration		%
	REACH no					
1	ethyl-acetate					
	141-78-6	EUH066	>=	25.00 - <	50.00	%-b.w.
	205-500-4	Eye Irrit. 2; H319				
	607-022-00-5	Flam. Liq. 2; H225				
	01-2119475103-46	STOT SE 3; H336				
2		, n-alkanes, isoalkanes, cyclics, <5% n-hexane				
	64742-49-0	Aquatic Chronic 2; H411	>=	10.00 - <	25.00	%-b.w.
	921-024-6	Flam. Liq. 2; H225				
	-	Skin Irrit. 2; H315				
	01-2119475514-35	STOT SE 3; H336				
		Asp. Tox. 1; H304				
3	butanone					
	78-93-3	EUH066	>=	10.00 - <	25.00	%-b.w.
	201-159-0	Eye Irrit. 2; H319				
	606-002-00-3	Flam. Liq. 2; H225				
	01-2119457290-43	STOT SE 3; H336				
4		oalkanes, <5% n-hexane				
	64742-49-0	Flam. Liq. 2; H225	>=	5.00 - <	10.00	%-b.w.
	931-254-9	Asp. Tox. 1; H304				
	-	Skin Irrit. 2; H315				
	01-2119484651-34	STOT SE 3; H336				
		Aquatic Chronic 2; H411				
5	Colophony					
	8050-09-7	Skin Sens. 1; H317	<	1.00		%-b.w.
	232-475-7					
	650-015-00-7					
	-					
6	zinc oxide					
	1314-13-2	Aquatic Acute 1; H400	<	1.00		%-b.w.
	215-222-5	Aquatic Chronic 1; H410				
	030-013-00-7					
	-					

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. Change contaminated, saturated clothing.

#### 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, irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart and seek medical advice.

## After ingestion

Do not induce vomiting. Call a doctor immediately.

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

No data available.

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

No data available.

Current version: 3.2.0, issued: 04.01.2019 Replaced version: 3.1.3, issued: 30.08.2018 Region: GB

## **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)

## 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

Exclude sources of ignition and ventilate the area. Do not inhale vapours. Refer to protective measures listed in sections 7 and 8.

#### 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

Pick up rest with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). When picked up, treat material as prescribed under heading "Disposal considerations".

## 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.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - refrain from smoking. Take precautionary measures against static charges.

## 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.

#### Recommended storage temperature

Value 15 - 30 °C

## Storage stability

Value 18 months

#### Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage.

## Advice on storage assembly

Do not store together with: explosive substances; spontaneously combusting substances

#### 7.3 Specific end use(s)

No data available.

Current version: 3.2.0, issued: 04.01.2019 Replaced version: 3.1.3, issued: 30.08.2018 Region: GB

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

## Occupational exposure limit values

No	Substance name	CAS no.		EC no.	
1	ethyl-acetate 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	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			
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/m³		
	WEL long-term (8-hr TWA reference period)	0.05	mg/m³		
	Comments	Sen			

# **DNEL, DMEL and PNEC values**

## **DNEL** values (worker)

	DIVLE Values (WOIKEI)			1 2 . 2 2	
No	Substance name			CAS / EC n	0
	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/m³
	inhalative	Long term (chronic)	local	734	mg/m³
	inhalative	Short term (acut)	local	1468	mg/m³
	inhalative	Long term (chronic)	systemic	734	mg/m³
2	butanone			78-93-3	
				201-159-0	
	dermal	Long term (chronic)	systemic	1161.00	mg/kg/day
	inhalative	Long term (chronic)	systemic	600.00	mg/m³
3	Hydrocarbons, C6, isoal	kanes, <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/m³

Current version: 3.2.0, issued: 04.01.2019 Replaced version: 3.1.3, issued: 30.08.2018 Region: GB

#### **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/m³
	inhalative	Long term (chronic)	local	367	mg/m³
	inhalative	Short term (acut)	local	734	mg/m³
	inhalative	Long term (chronic)	systemic	367	mg/m³
2	butanone			78-93-3	
				201-159-0	
	oral	Long term (chronic)	systemic	31.00	mg/kg/day
	dermal	Long term (chronic)	systemic	412.00	mg/kg/day
	inhalative	Long term (chronic)	systemic	106.00	mg/m³
3	Hydrocarbons, C6, isoalkane	es, <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/m³

#### **PNEC** values

	PNEC values			
No	Substance name		CAS / EC n	0
	ecological compartment	Туре	Value	
1	ethyl-acetate		141-78-6	
			205-500-4	
	water	fresh water	0.24	mg/L
	water	marine water	0.024	mg/L
	water	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	55.80	mg/L
	water	marine water	55.80	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

No data available.

## 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

A2/P2

## Eye / face protection

Safety glasses with side protection shield (EN 166)

Current version: 3.2.0, issued: 04.01.2019 Replaced version: 3.1.3, issued: 30.08.2018 Region: GB

#### 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 nitri

#### Other

Normal chemical work clothing.

### **Environmental exposure controls**

No data available.

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

## 9.1 Information on basic physical and chemical properties

Form/Colour			
liquid			
colourless			
Odour			
of solvents			
Odour threshold			
No data available			
pH value			
No data available			
Boiling point / boiling range			
Value	NI abdo-	56	°C
Reference substance	Naphtha		
Melting point / melting range			
No data available	<del></del>		
Decomposition point / decomposition range			
No data available			
Flash point			
Value Reference substance	Naphtha	-26	°C
	Тиарпша		
Auto-ignition temperature  No data available			
Oxidising properties  No data available			
Explosive properties  No data available			
Flammability (solid, gas)  No data available			
Lower flammability or explosive limits  Value		1	% vol
Reference substance	Naphtha		% VOI
Upper flammability or explosive limits			
Value		12.8	% vol
Reference substance	Ethyl acetate		72.70
Vapour pressure			
Value	T	21	kPa
Reference temperature		20	°C
Reference substance	Naphtha		

Current version: 3.2.0, issued: 04.01.2019 Replaced version: 3.1.3, issued: 30.08.2018 Region: GB

Vapour density					
No data available					
Evaporation rate					
No data available					
Relative density					
No data available					
Density					
Value	appr.	0.84	g/cm³		
Reference temperature		20	°C		
Solubility in water					
Comments	immiscible				
Solubility(ies)					
No data available					
Partition coefficient: n-octanol/water					
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	0.0	201-159-0	
log Pow Reference temperature			0.3 40	°C	
Method	OECD 117		40	<u> </u>	
Source	ECHA				
Viscosity	·				
Value	appr.	450	mPa*s		
Reference temperature	1.00	20	°C		
Туре	dynamic				
Solvent content					
Value	appr.	82	%		
Solids content					
Value	appr.	18	%		

## 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, if handled according to order.

## 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.

Current version: 3.2.0, issued: 04.01.2019 Replaced version: 3.1.3, issued: 30.08.2018 Region: GB

# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

Acut	e oral toxicity				
No	Substance name		CAS no.		EC no.
1	ethyl-acetate		141-78-6		205-500-4
LD50		>		5600	mg/kg bodyweight
Spec	ries	rat			
Sour	ce	ECHA			
2	butanone		78-93-3		201-159-0
LD50				3460	mg/kg bodyweight
Spec	ries	rat			
Meth	od	OECD 423			
Sour	ce	ECHA			
3	Hydrocarbons, C6, isoalkanes, <5% n-hexane		64742-49-0		931-254-9
LD50		>		5000	mg/kg bodyweight
Spec		rat			
Meth	od	OECD 401			
Sour	ce	ECHA			
4	zinc oxide		1314-13-2		215-222-5
LD50		>		5000	mg/kg bodyweight
Spec	ries	rat			
Meth	od	OECD 401			
Sour	ce	ECHA			

A	a darmal taxiaity				
	te dermal toxicity		CAC ===		FC
No	Substance name		CAS no.		EC no.
1	ethyl-acetate		141-78-6		205-500-4
LD50	)	>		20000	mg/kg bodyweight
Spec	cies	rabbit			
Sour	ce	ECHA			
2	butanone		78-93-3		201-159-0
LD50	)	>		10	mg/kg bodyweight
Spec	cies	rabbit			
Meth	od	OECD 402			
Sour	ce	ECHA			
3	Hydrocarbons, C6, isoalkanes, <5% n-hexane		64742-49-0		931-254-9
LD50	)	>		3350	mg/kg bodyweight
Spec	cies	rabbit			
Meth	od	OECD 402			
Sour	ce	ECHA			

Acut	e inhalational toxicity					
No	Substance name		CAS no.		EC no.	
1	Hydrocarbons, C6-C7, n-alkanes, isoalkanes,	cyclics, <5%	64742-49-0		921-024-6	
	n-hexane					
LC50	)	>		25.2	mg/l	
Dura	tion of exposure			4	h	
State	e of aggregation	Vapour				
Spec	cies	rat				
Sour	ce	ECHA				
2	Hydrocarbons, C6, isoalkanes, <5% n-hexane		64742-49-0		931-254-9	
LC50	)			259	mg/l	
Dura	tion of exposure			4	h	
State	e of aggregation	Vapour				
Spec	cies	rat				
Meth	od	OECD 403				
Sour	ce	ECHA				

Current version: 3.2.0, issued: 04.01.2019 Replaced version: 3.1.3, issued: 30.08.2018 Region: GB

Substance name ethyl-acetate					
ethyl-acetate		CAS no.		EC no.	
		141-78-6		205-500-4	
ecies	rabbit				
ethod	OECD 404				
urce E	ECHA				
aluation	low-irritant				
aluation/classification E	Based on availa	ble data, the clas	ssification criter	ria are not met.	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyn-hexane		64742-49-0		921-024-6	
ecies	rabbit				
ethod	OECD 404				
urce E	ECHA				
	irritant				
butanone		78-93-3		201-159-0	
ration of exposure			4	h	
	rabbit				
ethod	OECD 404				
urce E	ECHA				
aluation	non-irritant				
Hydrocarbons, C6, isoalkanes, <5% n-hexane		64742-49-0		931-254-9	
ration of exposure			4	h	
ecies	rabbit				
ethod	OECD 404				
urce	ECHA				
	non-irritant				
		ble data, the clas	ssification criter	ria are met	
	24004 011 41411	.5.5 44.4, 1.75 5.4			
rious eye damage/irritation					
Substance name		CAS no.		EC no.	
ethyl-acetate		141-78-6		205-500-4	
	rabbit				
urce [	low-irritant				
				201-159-0	
		78-93-3			
aluation   I   butanone   ecies   r	rabbit	78-93-3			
aluation   I   butanone   ecies   r	rabbit OECD 405	78-93-3			
aluation   I   butanone   ecies   rethod   (1)		78-93-3			
aluation   I   butanone   ecies   rethod   urce   I	OECD 405	78-93-3			
aluation   I   butanone   ecies   rethod   urce   aluation   i	OECD 405 ECHA	78-93-3 64742-49-0		931-254-9	
aluation   I   butanone   ecies   rethod   urce   I	OECD 405 ECHA		72	<b>931-254-9</b> h	
aluation   I butanone ecies   rethod   urce   aluation   i Hydrocarbons, C6, isoalkanes, <5% n-hexane ration of exposure	OECD 405 ECHA		72		
aluation   I    butanone     ecies	OECD 405 ECHA irritant		72		
aluation   I aluation   I butanone ecies ethod   I urce   I aluation   I urce   I aluation   I Hydrocarbons, C6, isoalkanes, <5% n-hexane ration of exposure ecies   I ethod   I	OECD 405 ECHA irritant		72		_
	OECD 405 ECHA low-irritant			201-159-0	

Current version: 3.2.0, issued: 04.01.2019 Replaced version: 3.1.3, issued: 30.08.2018 Region: GB

Resp	piratory or skin sensitisation			
No	Substance name		CAS no.	EC no.
1	ethyl-acetate		141-78-6	205-500-4
Rout	e of exposure	Skin		
Spec	cies	guinea pig		
Meth	od	OECD 406		
Sour	ce	ECHA		
Evalu	uation	non-sensitizing		
2	butanone		78-93-3	201-159-0
Rout	e of exposure	Skin		
Spec	cies	guinea pig		
Meth	od	OECD 406		
Sour	ce	ECHA		
Evalu	uation	non-sensitizing		
3	Hydrocarbons, C6, isoalkanes, <5% n-hexane		64742-49-0	931-254-9
Rout	e of exposure	Skin		
Spec	cies	mouse		
Meth	od	OECD 429		
Sour	ce	ECHA		
Evalu	uation	non-sensitizing		

Gerr	n cell mutagenicity			
No	Substance name	CAS no.	EC no.	
1	butanone	78-93-3	201-159-0	
Spec	cies	Salmonella typhimurium		
Meth	nod	OECD 471		
Sour	rce	ECHA		
Eval	uation/classification	Based on available data, the classification cr	iteria are not met.	
2	Hydrocarbons, C6, isoalkanes, <5% n-hexane	64742-49-0	931-254-9	
Туре	e of examination	gene mutation assay		
Spec	cies	Salmonella typhimurium		
Meth	nod	OECD 471		
Sour	rce	ECHA		
Eval	uation/classification	Based on available data, the classification criteria are not met.		
Rout	te of exposure	inhalational		
Туре	e of examination	Chromosome aberration test		
Spec	cies	rat		
Method		OECD 475		
Sour	rce	ECHA		
Eval	uation/classification	Based on available data, the classification criteria are not met.		

Repr	Reproduction toxicity				
No	Substance name	CAS no.		EC no.	
1	Hydrocarbons, C6, isoalkanes, <5% n-hexane	64742-49	-0	931-254-9	
Rout	e of exposure	inhalational			
NOA	EC		9000	ppm	
Dura	tion of exposure		13	week/s	
Type	of examination	2 generation study			
Spec	ries	rat			
Meth	od	OECD 416			
Source ECHA					
Evalu	uation/classification	Based on available data, t	he classification cri	teria are not met.	

Carc	Carcinogenicity					
No	Substance name	CAS	no.	EC no.		
1	Hydrocarbons, C6, isoalkanes, <5% n-hexane	6474	42-49-0	931-254-9		
Rout	e of exposure	inhalational				
NOA	EC		9016	ppm		
Dura	tion of exposure		2	year(s)		
Spec	ries	mouse				
Meth	od	OECD 451				
Sour	ce	ECHA				
Evalu	uation/classification	Based on available of	data, the classification crit	eria are not met.		

Current version: 3.2.0, issued: 04.01.2019 Replaced version: 3.1.3, issued: 30.08.2018 Region: GB

STOT	- single exposure				
	ata available				
STOT	STOT - repeated exposure				
No	Substance name		CAS no.		EC no.
1	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, n-hexane	cyclics, <5%	64742-49-0		921-024-6
Route	e of exposure	inhalational			
NOA	EC			14000	mg/m³
Speci Source		rat ECHA			
2	Hydrocarbons, C6, isoalkanes, <5% n-hexane	,	64742-49-0		931-254-9
Route	e of exposure	inhalational			
NOA	EC			2984	ppm
Durat	ion of exposure			13	week/s
Speci		mouse			
	et organ	liver, kidney			
Metho		OECD 413			
Source	ce	ECHA			
Evalu	ation/classification	Based on avai	lable data, the cla	assification crit	eria are not met.
Route	e of exposure	inhalational			
NOA	EC .			8992	ppm
Durat	ion of exposure			13	week/s
Speci		mouse			
Metho	od	OECD 413			
Source	• •	ECHA			
Evalu	ation/classification	Based on avai	lable data, the cl	assification crit	eria are not met.
Aspir	Aspiration hazard				
	No data available				

# SECTION 12: Ecological information

## 12.1 Toxicity

Toxi	city to fish (acute)				
No	Substance name	CAS no.		EC no.	
1	ethyl-acetate	141-78-6		205-500-4	
LC50			230	mg/l	
Dura	tion of exposure		96	h	
Spec	ties	Pimephales promelas			
Sour	ce	ECHA			
2	butanone	78-93-3		201-159-0	
LC50			2993	mg/l	
Dura	tion of exposure		96	h	
Spec		Pimephales promelas			
Meth	od	OECD 203			l
Sour	ce	ECHA			

# Toxicity to fish (chronic) No data available

Toxio	city to Daphnia (acute)			
No	Substance name	CAS no.		EC no.
1	ethyl-acetate ethyl-acetate	141-78-6		205-500-4
EC50			1350	mg/l
	tion of exposure		48	h
Species		Daphnia magna		
Source	ce	ECHA		
2	butanone	78-93-3		201-159-0
EC50			308	mg/l
Duration of exposure			48	h
Species		Daphnia magna		
		OECD 202		
Source	ce	ECHA		

Current version: 3.2.0, issued: 04.01.2019 Replaced version: 3.1.3, issued: 30.08.2018 Region: GB

Toxicity to Daphnia (chronic)	
No data available	

Toxic	city to algae (acute)			
No	Substance name	CAS no.		EC no.
1	butanone	78-93-3		201-159-0
EC50	)		2029	mg/l
Dura	tion of exposure		96	h
Spec	ries	Pseudokirchneriella subcapitata		
Meth	od	OECD 201		
Sour	ce	ECHA		

Toxic	
No da	ata available

Bacteria toxicity		
No data available		

12.2 Persistence and degradability

	crosscrice and acgradabilit	<i>,</i>	
Biod	degradability		
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
Soul	rce	ECHA	
Eval	uation	readily biodegradable	
2	butanone	78-93-3	201-159-0
Туре		aerobic biodegradation	
Valu	е	98	%
Dura	ation	28	day(s)
Meth	nod	OECD 301 D	
Soul	rce	ECHA	
Eval	uation	readily biodegradable	

## 12.3 Bioaccumulative potential

	.5 Bloaccumulative potential							
Partition coefficient: n-octanol/water								
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	ılts of PBT and vPvB assessment				
PBT assessment	No data available.				
vPvB assessment	No data available.				

#### 12.6 Other adverse effects

No data available.

#### 12.7 Other information

Other information
Do not discharge into the drains or waters and do not store on public depositories.
Do not discharge product unmonitored into the environment.

## **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.

Current version: 3.2.0, issued: 04.01.2019 Replaced version: 3.1.3, issued: 30.08.2018 Region: GB

#### **Packaging**

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in 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
Tunnel restriction code D/E

Environmentally hazardous Symbol "fish and tree"

substance mark

## 14.2 Transport IMDG

Label

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

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 Transport in bulk according to Annex II of Marpol and the IBC Code

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.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET
AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS 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

Current version: 3.2.0, issued: 04.01.2019 Replaced version: 3.1.3, issued: 30.08.2018 Region: GB

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.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

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 chapter.

### 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.

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