

**Trade name:** Arma-Chek Mastic

**Current version :** 3.3.0, issued: 07.02.2017

**Replaced version:** 3.2.0, issued: 20.06.2016

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**Arma-Chek Mastic**

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

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

Sealant for the outdoor-processing of Arma-Chek D and Arma-Chek R

**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

### 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 information**

Classification and labelling with respect to corrosivity and irritation to skin are based on toxicological studies performed on the product (mixture).

Classification and labelling with respect to Serious eye damage/eye irritation are based on toxicological studies performed on the product (mixture).

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.

This product does not meet the classification criteria given in the Regulation (EC) No 1272/2008 (CLP).

### 2.2 Label elements

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

**Hazard pictograms**

-

**Signal word**

-

**Hazard statements**

-

**Hazard statements (EU)**

EUH210 Safety data sheet available on request.

**Precautionary statements**

-

**Labelling information**

The labelling (EU hazard statements) meets the criteria of annex II of Directive (EC) Nr. 1272/2008 (CLP).

### 2.3 Other hazards

PBT assessment

No data available.

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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		%
			Concentration		
1	<b>3-(trimethoxysilyl)propylamine</b>				
	13822-56-5 237-511-5 - 01-2119510159-45	Skin Irrit. 2; H315 Eye Dam. 1; H318	>	1.00 - < 5.00	%-b.w.
2	<b>trimethoxy(vinyl)silane</b>				
	2768-02-7 220-449-8 - 01-2119513215-52	Acute Tox. 4; H332 Flam. Liq. 3; H226	>	1.00 - < 5.00	%-b.w.

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**

In case of contact with skin wash off with 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.

**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 (CO<sub>2</sub>); Nitrogen oxides (NO<sub>x</sub>)

**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.

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**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**

Take up mechanically. 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**

No special measures necessary if stored and handled as prescribed.

**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.

**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.

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection**
**8.1 Control parameters**
**DNEL and PNEC values**
**DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	3-(trimethoxysilyl)propylamine			13822-56-5 237-511-5	
	dermal	Long term (chronic)	systemic	8.3	mg/kg/day
	inhalative	Long term (chronic)	systemic	58	mg/m <sup>3</sup>
2	trimethoxy(vinyl)silane			2768-02-7 220-449-8	
	dermal		systemic	0.69	mg/kg/day
	inhalative		systemic	4.9	mg/m <sup>3</sup>

**DNEL value (consumer)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	3-(trimethoxysilyl)propylamine			13822-56-5 237-511-5	
	oral	Long term (chronic)	systemic	5	mg/kg/day
	dermal	Long term (chronic)	systemic	5	mg/kg/day
	inhalative	Long term (chronic)	systemic	17	mg/m <sup>3</sup>
2	trimethoxy(vinyl)silane			2768-02-7 220-449-8	
	oral	Long term (chronic)	systemic	0.3	mg/kg/day
	dermal	Long term (chronic)	systemic	0.3	mg/kg/day
	dermal	Short term (acute)	systemic	26.9	mg/kg/day
	inhalative	Long term (chronic)	systemic	1.04	mg/m <sup>3</sup>
	inhalative	Short term (acute)	systemic	93.4	mg/m <sup>3</sup>

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**PNEC values**

No	Substance name	CAS / EC no	
	ecological compartment	Type	Value
1	3-(trimethoxysilyl)propylamine		13822-56-5 237-511-5
	water	fresh water	0.33 mg/l
	water	marine water	0.033 mg/l
	water	Aqua intermittent	3.3 mg/l
	water	fresh water sediment	1.2 mg/kg dry weight
	water	marine water sediment	0.12 mg/kg dry weight
	soil	-	0.045 mg/kg dry weight
	sewage treatment plant	-	13 mg/l
2	trimethoxy(vinyl)silane		2768-02-7 220-449-8
	water	fresh water	0.34 mg/l
	water	marine water	0.034 mg/l
	water	fresh water sediment	0.27 mg/kg moist mass
	soil	-	0.046 mg/kg moist mass
	sewage treatment plant	-	110 mg/l

**8.2 Exposure controls**

**Appropriate engineering controls**

No data available.

**Personal protective equipment**

**Respiratory protection**

In case of dust formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn.

**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 chloroprene
- Appropriate Material Nitrile butyl rubber
- Appropriate Material butyl rubber
- Appropriate Material PVC
- Appropriate Material Natural rubber, NR

**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**

<b>Form/Colour</b>
paste
black; grey
<b>Odour</b>
weak; characteristic

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<b>Odour threshold</b>			
No data available			
<b>pH value</b>			
No data available			
<b>Boiling point / boiling range</b>			
No data available			
<b>Melting point / melting range</b>			
No data available			
<b>Decomposition point / decomposition range</b>			
No data available			
<b>Flash point</b>			
No data available			
<b>Auto-ignition temperature</b>			
No data available			
<b>Oxidising properties</b>			
No data available			
<b>Explosive properties</b>			
No data available			
<b>Flammability (solid, gas)</b>			
No data available			
<b>Lower flammability or explosive limits</b>			
No data available			
<b>Upper flammability or explosive limits</b>			
No data available			
<b>Vapour pressure</b>			
No data available			
<b>Vapour density</b>			
No data available			
<b>Evaporation rate</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value	1.5	g/cm <sup>3</sup>	
Reference temperature	20	°C	
<b>Solubility in water</b>			
Remarks	insoluble		
<b>Solubility(ies)</b>			
No data available			
<b>Partition coefficient: n-octanol/water</b>			
No data available			
<b>Viscosity</b>			
No data available			

## 9.2 Other information

<b>Other information</b>
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. Product cures with moisture.

### 10.2 Chemical stability

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

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**10.3 Possibility of hazardous reactions**

None, if handled according to order.

**10.4 Conditions to avoid**

No data available.

**10.5 Incompatible materials**

No data available.

**10.6 Hazardous decomposition products**

None, if handled according to intended use.

**SECTION 11: Toxicological information**
**11.1 Information on toxicological effects**

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	3-(trimethoxysilyl)propylamine	13822-56-5	237-511-5
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
2	trimethoxy(vinyl)silane	2768-02-7	220-449-8
LD50	7120	- 7236	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	3-(trimethoxysilyl)propylamine	13822-56-5	237-511-5
LD50	>	2000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
2	trimethoxy(vinyl)silane	2768-02-7	220-449-8
LD50	3259	- 3880	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	Arma-Chek Mastic
Remarks	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists).

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
LC50	16.8		mg/l
Duration of exposure	4		h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		

Skin corrosion/irritation	
No	Product Name
1	Arma-Chek Mastic
Source	Supplier
Remarks	Analogous to product with a similar composition.
Evaluation	non-irritant

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Serious eye damage/irritation	
No	Product Name
1	Arma-Chek Mastic
Source	Supplier
Remarks	Analogous to product with a similar composition.
Evaluation	non-irritant

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	3-(trimethoxysilyl)propylamine	13822-56-5	237-511-5
Route of exposure		Skin	
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
2	trimethoxy(vinyl)silane	2768-02-7	220-449-8
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	3-(trimethoxysilyl)propylamine	13822-56-5	237-511-5
Type of examination		Bacterial Reverse Mutation Test	
Method		OECD 471	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	trimethoxy(vinyl)silane	2768-02-7	220-449-8
Method		OECD 471	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
Method		OECD 422	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Carcinogenicity
No data available

STOT-single exposure
No data available

STOT-repeated exposure
No data available

Aspiration hazard
No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure
Inhalation of dusts may irritate the respiratory tract.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
LC50		191	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Source	ECHA		

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Toxicity to fish (chronic)	
No data available	

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
EC50		168.7	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	EU C.2		
Source	ECHA		

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	trimethoxy(vinyl)silane	2768-02-7	220-449-8
NOEC		28	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		

Toxicity to algae (acute)	
No data available	

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	trimethoxy(vinyl)silane	2768-02-7	220-449-8
Type	BSB		
Value		51	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	not readily biodegradable		

## 12.3 Bioaccumulative potential

No data available.

## 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 Other adverse effects

No data available.

## 12.7 Other information

Other information	
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.

#### 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.



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## SECTION 14: Transport information

- 14.1 Transport ADR/RID/ADN**  
The product is not subject to ADR/RID/ADN regulations.
- 14.2 Transport IMDG**  
The product is not subject to IMDG regulations.
- 14.3 Transport ICAO-TI / IATA**  
The product is not subject to ICAO-TI / IATA regulations.
- 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**

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

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

This product is not subject to Part 1 or 2 of Annex I.

### 15.2 Chemical safety assessment

For this mixture a chemical safety assessment has not been carried out.

## 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)**

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.

Alterations/supplements:

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

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