

**Safety Data Sheet**

according to Regulation (EU) No. 1907/2006

**671.000 Renia - Renol AL antistatic-Contact Adhesive**

Print date: 30.05.2010

Product code: 671

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**1. Identification of the substance/preparation and of the company/undertaking****Identification of the substance or preparation**

671.000 Renia - Renol AL antistatic-Contact Adhesive

**Use of the substance/preparation**

adhesives

Roller application or brushing of adhesive and other coating.

**Company/undertaking identification**

Company name:	Renia - GmbH	
	Chemische Fabrik	
Street:	Ostmerheimer Straße 516	
Place:	D-51109 Köln	
Post-office box:	910 659	
	D-51076 Köln	
Telephone:	+49-(0)221-630799-0	Telefax: +49-(0)221-630799-50
e-mail:	info@renia.com	
Contact person:	Herr Dr. Julian Grimme	Telephone: 17
Internet:	www.renia.com	
Responsible Department:	F & E, Labor	
Emergency telephone:	+49-(0)221-63079924	

**2. Hazards identification****Classification**

Indications of danger : Highly flammable, Irritant, Dangerous for the environment

R-phrases:

Highly flammable.

Irritating to eyes and skin.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Vapours may cause drowsiness and dizziness.

GHS:

Hazard categories:

Flammable liquid: Flam. Liq. 2

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Highly flammable liquid and vapour.

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

**Explication of special hazards for human health and environment**

In use, may form flammable/explosive vapour-air mixture.

**3. Composition/information on ingredients****Chemical characterization ( Mixture )**polychloroprene adhesive with modified synthetic resins and stabilizers in a mixture of organic solvents;  
antistatic agent

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**Hazardous components**

EC-No.	Chemical name	Quantity
CAS-No.	Classification	
REACH-No.	GHS classification	
205-500-4	ethyl acetate	25-35 %
141-78-6	F, Xi R11-36-66-67	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
203-806-2	cyclohexane	20-30 %
110-82-7	F, Xn, Xi, N R11-65-38-67-50-53	
	Flam. Liq. 2, Asp. Tox. 1, Skin Irrit. 2, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H225 H304 H315 H336 H400 H410	
270-690-8	Hydrocarbons, C <sub>7</sub> -5, C <sub>5</sub> -6-rich; Low boiling point naphtha - unspecified	20-30 %
68476-50-6	F, Xn, Xi, N R11-38-65-67-51-53	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225-H304-H315-H336-H411	

Full text of R- and H-phrases: see section 16.

**4. First aid measures****After inhalation**

Move to fresh air in case of accidental inhalation of vapours. Consult a physician. If symptoms persist, call a physician.

**After contact with skin**

Take off all contaminated clothing immediately. Wash off with soap and water. Grease skin after contact.

**After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

**After ingestion**

Do not induce vomiting. Call a physician immediately.

**Advice to doctor**

In case of shortness of breath, give oxygen. Risk of product entering the lungs on vomiting after ingestion.

**5. Fire-fighting measures****Suitable extinguishing media**

carbon dioxide (CO<sub>2</sub>) dry chemical foam water spray

**Extinguishing media which must not be used for safety reasons**

high volume water jet

**Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases**

In the event of fire and/or explosion do not breathe fumes. In case of fire production of HCl-gases.

**Special protective equipment for fire-fighters**

In the event of fire, wear self-contained breathing apparatus.

**Additional information**

Use water spray to cool unopened containers.

**6. Accidental release measures****Personal precautions**

Remove all sources of ignition. When using do not smoke. Ensure adequate ventilation.

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#### Environmental precautions

Do not let product enter drains.

#### Methods for cleaning up/taking up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Dispose of as special waste in compliance with local and national regulations

## 7. Handling and storage

### Handling

#### Advice on safe handling

Use only in well-ventilated areas. Use only in area provided with appropriate exhaust ventilation. Provide sufficient air exchange and/or exhaust in work rooms.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. In use, may form flammable/explosive vapour-air mixture.

### Storage

#### Requirements for storage rooms and vessels

Keep containers tightly closed in a cool, well-ventilated place. Keep at temperatures between 5 and 40°C.

#### Advice on storage compatibility

Keep away from food, drink and animal feedingstuffs.

#### Further information on storage conditions

Keep away from heat. Protect against freezing. Keep container tightly closed in a dry and well-ventilated place. Keep away from direct sunlight.

Storageclass (VCI): 3

## 8. Exposure controls/personal protection

### Exposure limit values

#### Exposure limits (EH40)

CAS-No.	Chemical name	ml/m <sup>3</sup>	mg/m <sup>3</sup>	F/ml	Category	Origin
68476-50-6	Hydrocarbons, C <sub>&gt;=5</sub> , C5-6-rich; Low boiling point naphtha - unspecified	200	1000		TWA (8 h)	MAK
110-82-7	Cyclohexane	100	350		STEL (15 min)	MAK
		300	1050		TWA (8 h)	WEL
141-78-6	Ethyl acetate	200	-		STEL (15 min)	WEL
		400	-		TWA (8 h)	WEL
					STEL (15 min)	WEL

### Exposure controls



#### Protective and hygiene measures

When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product. Use protective skin cream before handling the product. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal



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feedingstuffs.

**Respiratory protection**

In case of insufficient ventilation wear suitable respiratory equipment. (gas filter type A2 )

**Hand protection**

solvent-resistant gloves: nitrile rubber,

butyl-rubber, fluoric rubber

Test suitability of gloves before use.

**Eye protection**

safety glasses

## 9. Physical and chemical properties

**General information**

Physical state:	liquid
Colour:	black
Odour:	ester-like, mild

**Important health, safety and environmental information**

	Test method
pH-Value:	not applicable
<b>Changes in the physical state</b>	
Melting point:	-4 - +8 °C
Boiling point:	40 - 80 °C DIN 53 171
Flash point:	-18 °C DIN 51 755
Lower explosion limits:	0,6 vol. %
Upper explosion limits:	13 vol. %
Ignition temperature:	260 °C DIN 51 794
Vapour pressure: (at 20 °C)	120 hPa DIN EN 12
Density (at 20 °C):	0,810 g/cm <sup>3</sup> DIN 51 757
Water solubility:	insoluble
Viscosity / dynamic: (at 20 °C)	1050 mPa·s DIN 53018
Solvent content:	78,3 %

**Other information**

## 10. Stability and reactivity

**Conditions to avoid**

Above 130 °C, hazardous fumes may be released. No decomposition if used as directed.

**Materials to avoid**

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

**Hazardous decomposition products**Heating can release hazardous gases. Carbon oxides In the event of fire the following can be released:  
carbon dioxide (CO<sub>2</sub>) Carbon monoxide

## 11. Toxicological information



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**Acute toxicity**

Health injuries are not known or expected under normal use.

**Specific effects in experiment on an animal**

no data available No data is available on the product itself.

**Corrosive and irritant effects**

Inhalation of vapours may cause irritation of the respiratory system in very susceptible persons. May cause skin and eye irritation in susceptible persons.

**Sensitising effects**

contains Kolophonium

**Severe effects after repeated or prolonged exposure**

Inhalation of vapours in high concentration can cause narcotic effects and metabolic acidosis.

**Carcinogenic/mutagenic/toxic effects for reproduction**

No data is available on the product itself.

## 12. Ecological information

**Ecotoxicity**

The product is insoluble and floats on water.

**Mobility**

No data is available on the product itself.

**Persistence and degradability**

Taking into consideration the properties of several components, the product is estimated not to be readily biodegradable according to OECD classification.

**Bioaccumulative potential**

No data is available on the product itself.

**Further information**

Do not let product enter drains.

## 13. Disposal considerations

**Advice on disposal**

Dispose of as special waste in compliance with local and national regulations

**Waste disposal number of waste from residues/unused products**

080406 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products)

**Waste disposal number of used product**

080406 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products)

**Waste disposal number of contaminated packaging**

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

**Contaminated packaging**

Offer rinsed packaging material to local recycling facilities. Recycling of packaging materials (dual system).

## 14. Transport information

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#### Land transport (ADR/RID)

UN number: 1133  
ADR/RID class: 3  
Classification code: F1  
Warning plate  
Hazard-no.: 33  
Hazard label: 3+10



ADR/RID packing group: III  
Limited quantity: LQ7  
Tunnel restriction code: D/E

#### **Description of the goods**

Adhesives

Hazardous Material: : cyclohexane

#### **Other applicable information (land transport)**

Special provisions: 640H

E1

Transport category: 3

#### Inland waterways transport

UN number: 1133  
ADNR class: 3  
Classification code: F1  
Hazard label: 3+10



Packing group: III  
Limited quantity: LQ7

#### **Description of the goods**

Adhesives

Hazardous Material: : cyclohexane

#### **Other applicable information (inland waterways transport)**

: 640H

#### Marine transport

UN number: 1133  
IMDG code: 3  
Marine pollutant: •  
Hazard label: 3+10



IMDG packing group: III  
EmS: F-E, S-D  
Limited quantity: 5 L

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#### Description of the goods

Adhesives  
Hazardous Material: : cyclohexane

#### Other applicable information (marine transport)

Staukategorie A  
: 223, 944, 955  
Category: : A

#### Air transport

UN/ID number: 1133  
ICAO/IATA-DGR: 3  
Hazard label: 3+10



ICAO packing group: III  
Limited quantity Passenger: 10 L

IATA-packing instructions - Passenger: 309  
IATA-max. quantity - Passenger: 60 L  
IATA-packing instructions - Cargo: 310  
IATA-max. quantity - Cargo: 220 L

#### Description of the goods

Adhesives  
Hazardous Material: : cyclohexane

#### Other applicable information (air transport)

: Y309  
E3  
220 L

## 15. Regulatory information

#### Labelling

Danger symbols:

F - Highly flammable; Xi - Irritant; N - Dangerous for the environment



F - Highly flammable

Xi - Irritant

N - Dangerous for the environment

#### R phrases

11 Highly flammable.  
36/38 Irritating to eyes and skin.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
67 Vapours may cause drowsiness and dizziness.

#### S phrases

09 Keep container in a well-ventilated place.  
16 Keep away from sources of ignition - No smoking.  
23 Do not breathe vapour .  
29 Do not empty into drains.

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33 Take precautionary measures against static discharges.

#### Additional advice on labelling

According to (National equivalent of EC-Dir. 67/548), as amended, the product is labelled as follows: The product is classified and labelled in accordance with Directive 1999/45/EC. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

#### GHS labelling

Signal word:

Danger

Pictograms:

flame; exclamation mark; environment



#### Hazard statements

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.

#### Precautionary statements

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash ... thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P321	Specific treatment (see ... on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P352	Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use sand, dry chemical or alcohol-resistant foam for extinction.
P391	Collect spillage.
P235	Keep cool.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

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P405 Store locked up.  
P501 Dispose of contents/container to ....

**Special labelling for certain preparations**

In use may form flammable/explosive vapour-air mixture.  
Repeated exposure may cause skin dryness or cracking.  
Contains Rosin, colophony. May produce an allergic reaction.

**EU regulatory information**

1999/13/EC (VOC): 78,3 % (634,23 g/l)

**Additional information**

Observe employment restrictions under the law for the protection of young people at work (94/33/EC).  
Observe employment restrictions under the Maternity Protection Directive (EC 92/85/EEC) for expectant or nursing mothers.

**National regulatory information**

Water contaminating class (D): 2 - water contaminating

**16. Other information****Full text of R-phrases referred to under sections 2 and 3**

11 Highly flammable.  
36 Irritating to eyes.  
36/38 Irritating to eyes and skin.  
38 Irritating to skin.  
50 Very toxic to aquatic organisms.  
51 Toxic to aquatic organisms.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
53 May cause long-term adverse effects in the aquatic environment.  
65 Harmful: may cause lung damage if swallowed.  
66 Repeated exposure may cause skin dryness or cracking.  
67 Vapours may cause drowsiness and dizziness.

**Full text of H-Statements referred to under sections 2 and 3**

H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.

**Further Information**

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*