

**Safety Data Sheet**

according to Regulation (EU) No. 1907/2006

**570.000 Renia - Primer for PUR**

Print date: 30.05.2010

Product code: 570

Page 1 of 9

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

570.000 Renia - Primer for PUR

**Use of the substance/preparation**

flameable liquid

**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  
R-phrases:  
Highly flammable.  
Irritating to eyes.  
Repeated exposure may cause skin dryness or cracking.  
Vapours may cause drowsiness and dizziness.

GHS: Hazard categories:  
Flammable liquid: Flam. Liq. 2  
Serious eye damage/eye irritation: Eye Irrit. 2  
Specific target organ toxicity - single exposure: STOT SE 3  
Hazard Statements:  
Highly flammable liquid and vapour.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.

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

In use, may form flammable/explosive vapour-air mixture. Contains isocyanates. See information supplied by the manufacturer.

**3. Composition/information on ingredients****Chemical characterization ( Mixture )**

solution of polyisocyanate in an organic solvent



## Safety Data Sheet

according to Regulation (EU) No. 1907/2006

### 570.000 Renia - Primer for PUR

Print date: 30.05.2010

Product code: 570

Page 2 of 9

#### Hazardous components

EC-No.	Chemical name	Quantity
CAS-No.	Classification	
REACH-No.	GHS classification	
205-500-4	ethyl acetate	70 - 95 %
141-78-6	F, Xi R11-36-66-67	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
209-544-5	4-methyl-m-phenylene diisocyanate, toluene-2,4-di-isocyanate	< 0,1 %
584-84-9	Carc. Cat. 3, T+, Xi R40-26-36/37/38-42/43-52-53	
	Carc. 2, Acute Tox. 2, Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, Resp. Sens. 1, Skin Sens. 1, Aquatic Chronic 3; H351 H330 H319 H335 H315 H334 H317 H412	

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. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

#### 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 the event of fire dangerous gases may be formed.

##### 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.

##### Environmental precautions

Do not let product enter drains.

## Safety Data Sheet

according to Regulation (EU) No. 1907/2006

### 570.000 Renia - Primer for PUR

Print date: 30.05.2010

Product code: 570

Page 3 of 9

#### 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
141-78-6	Ethyl acetate	200	-		TWA (8 h)	WEL
		400	-		STEL (15 min)	WEL

### Exposure controls



#### Protective and hygiene measures

Avoid contact with the skin and the eyes. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal 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, fluoroc rubber  
Test suitability of gloves before use.



## Safety Data Sheet

according to Regulation (EU) No. 1907/2006

### 570.000 Renia - Primer for PUR

Print date: 30.05.2010

Product code: 570

Page 4 of 9

**Eye protection**

safety glasses

## 9. Physical and chemical properties

**General information**

Physical state: liquid  
Colour: yellow, clear  
Odour: ester-like, mild

**Important health, safety and environmental information**

	Test method
pH-Value:	not applicable
<b>Changes in the physical state</b>	
Boiling point:	77 °C DIN 53 171
Flash point:	-4 °C DIN 51 755
Lower explosion limits:	2,1 vol. %
Upper explosion limits:	11,5 vol. %
Ignition temperature:	460 °C DIN 51 794
Vapour pressure: (at 20 °C)	97 hPa DIN EN 12
Density (at 20 °C):	1,00 g/cm <sup>3</sup> DIN 51 757
Water solubility:	Decomposes in contact with water.
Viscosity / dynamic: (at 20 °C)	DIN 53018
Solvent content:	87,5 %

**Other information**

## 10. Stability and reactivity

**Conditions to avoid**

Thermal decomposition can take place above 200°C. 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

**Acute toxicity**

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

**Specific effects in experiment on an animal**LD<sub>50</sub>/oral/rat = > 2000 mg/kg  
Mild eye irritation (rabbit)**Corrosive and irritant effects**

May cause skin and eye irritation in susceptible persons. Contact with eyes may cause irritation.

**Sensitising effects**

No data is available on the product itself.

**Safety Data Sheet**

according to Regulation (EU) No. 1907/2006

**570.000 Renia - Primer for PUR**

Print date: 30.05.2010

Product code: 570

Page 5 of 9

**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**When under water, the product is transformed to poly-urea at the interface while producing CO<sub>2</sub>. Liquid soap or water soluble solvents enhance this reaction strongly.**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 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****Land transport (ADR/RID)**

UN number: 1993

ADR/RID class: 3

Classification code: F1

Warning plate

Hazard-no.: 33

Hazard label: 3



ADR/RID packing group: II

Limited quantity: LQ4, 3 Liter

Tunnel restriction code: D/E

**Description of the goods**

FLAMMABLE LIQUID, N.O.S. (ethyl acetate)

**Safety Data Sheet**

according to Regulation (EU) No. 1907/2006

**570.000 Renia - Primer for PUR**

Print date: 30.05.2010

Product code: 570

Page 6 of 9

**Other applicable information (land transport)**

: 274 - 330 - 601 - 640D

: 2

**Inland waterways transport**

UN number: 1993

ADNR class: 3

Classification code: F1

Hazard label: 3



Packing group: III

Limited quantity: 1 Liter

**Description of the goods**

FLAMMABLE LIQUID, N.O.S. (ethyl acetate)

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

: 640H

E1

**Marine transport**

UN number: 1993

IMDG code: 3

Marine pollutant: •

Hazard label: 3



IMDG packing group: II

EmS: F-E, S-E

Limited quantity: 1 Liter

**Description of the goods**

FLAMMABLE LIQUID, N.O.S. (ethyl acetate)

**Other applicable information (marine transport)**

Staukategorie B

**Air transport**

UN/ID number: 1993

ICAO/IATA-DGR: 3

Hazard label: 3



ICAO packing group: II

Limited quantity Passenger: 10 L

IATA-packing instructions - Passenger: 309

IATA-max. quantity - Passenger: 60 L

IATA-packing instructions - Cargo: 310

## Safety Data Sheet

according to Regulation (EU) No. 1907/2006

### 570.000 Renia - Primer for PUR

Print date: 30.05.2010

Product code: 570

Page 7 of 9

IATA-max. quantity - Cargo:

220 L

**Description of the goods**

FLAMMABLE LIQUID, N.O.S. (ethyl acetate)

**Other applicable information (air transport)**

: Y309

E3

220 L

Special provisions: A3

## 15. Regulatory information

### Labelling

Danger symbols:

F - Highly flammable; Xi - Irritant



F - Highly flammable

Xi - Irritant

**R phrases**

- 11 Highly flammable.
- 36 Irritating to eyes.
- 66 Repeated exposure may cause skin dryness or cracking.
- 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.
- 33 Take precautionary measures against static discharges.

**Special labelling for certain preparations**

Contains isocyanates. See information supplied by the manufacturer.

**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



**Safety Data Sheet**

according to Regulation (EU) No. 1907/2006

**570.000 Renia - Primer for PUR**

Print date: 30.05.2010

Product code: 570

Page 8 of 9

**Hazard statements**

- H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

**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.  
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.  
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.  
P235 Keep cool.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
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 isocyanates. May produce an allergic reaction.

**EU regulatory information**

1999/13/EC (VOC): 90 % (900 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): 1 - slightly water contaminating

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

- 11 Highly flammable.  
26 Very toxic by inhalation.  
36 Irritating to eyes.  
36/37/38 Irritating to eyes, respiratory system and skin.  
40 Limited evidence of a carcinogenic effect.  
42/43 May cause sensitization by inhalation and skin contact.  
52 Harmful to aquatic organisms.

**Safety Data Sheet**

according to Regulation (EU) No. 1907/2006

**570.000 Renia - Primer for PUR**

Print date: 30.05.2010

Product code: 570

Page 9 of 9

- 53 May cause long-term adverse effects in the aquatic environment.
- 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.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H412 Harmful to aquatic life with long lasting effects.

**Further Information**

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.

---

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