



## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

### 570.000 Renia - Primer for PUR

Print date: 06.06.2011

Product code: 570.000

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

##### Product identifier

570.000 Renia - Primer for PUR

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

###### Use of the substance/mixture

Isocyanate containing product.  
Coatings and paints, fillers, putties, thinners

##### Details of the supplier of the safety data sheet

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

#### SECTION 2: Hazards identification

##### Classification of the substance or mixture

Indications of danger : Highly flammable, Irritant  
R-phrases:  
Highly flammable.  
Irritating to eyes.  
May cause sensitization by skin contact.  
Repeated exposure may cause skin dryness or cracking.  
Vapours may cause drowsiness and dizziness.

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. Classification according EC regulation 1272/2008 (CLP):

##### **GHS classification**

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.

##### Label elements

Signal word:	Danger
Pictograms:	GHS02-GHS07



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#### Hazardous components which must be listed on the label

Aromatisches Isocyanat  
4-methyl-m-phenylene diisocyanate, toluene-2,6-di-isocyanate

#### 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 ... 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 of certain mixtures

EUH018 In use may form flammable/explosive vapour-air mixture.  
EUH066 Repeated exposure may cause skin dryness or cracking.  
EUH204 Contains isocyanates. May produce an allergic reaction.

#### Additional advice on labelling

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#### Other hazards

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

### SECTION 3: Composition/information on ingredients

#### Mixtures



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#### Chemical characterization

Coatings and paints, fillers, putties, thinners  
Isocyanate containing product.

#### Hazardous components

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
205-500-4	ethyl acetate	80-100 %
141-78-6	F, Xi R11-36-66-67	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
11-1111111111-11		
	Aromatisches Isocyanat	5-20 %
	R43	

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

## SECTION 4: First aid measures

### Description of first aid measures

#### General information

Move victim out of danger zone and lay down.

#### After inhalation

In case of inhalation of decomposition products, take the affected person into the fresh air and sit him quietly. Remove casualty to fresh air and keep warm and at rest.

#### After contact with skin

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Grease skin after contact.

#### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

#### After ingestion

Do not induce vomiting. In case of allergic symptoms especially in the breathing area, seek medical advice immediately.

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

Allergic reactions.

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

Position and transport victim on their side. In case of respiratory distress, bring into semi-upright, seated position. Where appropriate artificial ventilation.

## SECTION 5: Firefighting measures

### Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam. ABC powder. Atomized water. Dry sand.

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

High power water jet. High power water jet.

### Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes. Can be released in case of fire: Carbon



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monoxide. Hydrocyanic acid (hydrocyanic acid). vapours of isocyanate

#### Advice for firefighters

Special exposure hazards arising from the substance itself, combustion products, resulting gases: In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Use water spray/stream to protect personnel and to cool endangered containers. Contaminated fire-fighting water must be collected separately. Remove product from area of fire. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation.

#### Environmental precautions

Do not empty into drains or the aquatic environment. Cover drains.

#### Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed containers for disposal.

### SECTION 7: Handling and storage

#### Precautions for safe handling

##### Advice on safe handling

In case of open handling, use devices with built-in suction where possible. If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured.

##### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Only use material in places where open light, fire and other sources of ignition can be kept away. Vapours / aerosols must be extracted by suction immediately at point of origin.

#### Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place. Keep container tightly closed. Recommended storage temperature: 15-30 °C Ensure adequate ventilation of the storage area.

##### Advice on storage compatibility

Store packaging and combustible materials separately from one another. Keep away from food, drink and animal feedingstuffs.

##### Further information on storage conditions

Floors should be impenetrable, resistant to liquids and easy to clean.  
Store small quantities in appropriate dangerous substance cabinets.

#### Specific end use(s)

Coatings and paints, fillers, putties, thinners

### SECTION 8: Exposure controls/personal protection

#### Control parameters

#### 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



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#### Exposure controls



#### **Protective and hygiene measures**

Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Before starting work, apply solvent-cleaner-proof skin protection products.

#### **Respiratory protection**

Respiratory protection required in case of: insufficient ventilation. With correct and proper use, and under normal conditions, breathing protection is not required. If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn.

#### **Hand protection**

Test suitability of gloves before use.

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

#### **Eye protection**

Tightly sealed safety glasses.

#### **Environmental exposure controls**

Do not allow to enter into soil/subsoil. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

## SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state:	liquid
Colour:	light yellow
Odour:	ester

pH-Value:

Test not required.

#### **Changes in the physical state**

	Test method
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 51550
Solvent separation test:	< 0,1 %
Solvent content:	87,5 %

## SECTION 10: Stability and reactivity



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#### Reactivity

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

#### Chemical stability

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

#### Possibility of hazardous reactions

Gas/vapour, highly flammable.

#### Conditions to avoid

Decomposition takes place from temperatures above: > 150 °C

#### Incompatible materials

Acid, concentrated. , Oxidizing agents, strong.  
Reacts violently in contact with acids, amines, driers, polymerization accelerators and easily oxidized materials.

#### Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

## SECTION 11: Toxicological information

#### Information on toxicological effects

##### **Toxicokinetics, metabolism and distribution**

There are no data available on the preparation/mixture itself.

##### **Acute toxicity**

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

CAS No.	Chemical name				
	Exposure routes	Method	Dose	Species	h
141-78-6	ethyl acetate				
	Acute oral toxicity	LD50	5600 mg/kg	Ratte	
	Acute dermal toxicity	LD50	18000 mg/kg	Kaninchen	
	Acute inhalation toxicity	LC50	58 mg/l	Ratte	4

##### **Specific effects in experiment on an animal**

LD50/oral/rat = > 2000 mg/kg  
Mild eye irritation (rabbit)

##### **Irritation and corrosivity**

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

##### **Sensitizing effects**

May cause sensitization by inhalation and skin contact. Kolophonium, MMA

##### **Severe effects after repeated or prolonged exposure**

May cause allergy or asthma symptoms or breathing difficulties if inhaled .  
Inhalation causes narcotic effects/intoxication.

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

There are no data available on the preparation/mixture itself.

## SECTION 12: Ecological information

#### Toxicity

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.



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CAS No.	Chemical name			Species	h
	Aquatic toxicity	Method	Dose		
141-78-6	ethyl acetate				
	Acute fish toxicity	LC50	230 mg/l	Pimephales promelas	96
	Acute algae toxicity	ErC50	3300 mg/l	Scenedesmus subspicatus	72
	Acute crustacea toxicity	EC50	717 mg/l	Daphnia magna	48

#### Persistence and degradability

Product is biodegradable with difficulty.

#### Bioaccumulative potential

There are no data available on the preparation/mixture itself.

#### Partition coefficient n-octanol/water

CAS No.	Chemical name	Log Pow
141-78-6	ethyl acetate	0,60

#### Mobility in soil

There are no data available on the preparation/mixture itself.

#### Results of PBT and vPvB assessment

There are no data available on the preparation/mixture itself.

#### Other adverse effects

Toxic to aquatic life with long lasting effects.

#### Further information

The statement is derived from the properties of the components.

### SECTION 13: Disposal considerations

#### Waste treatment methods

##### Advice on disposal

Consult the local waste disposal expert about waste disposal.

##### 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

Completely emptied packings can be re-cycled.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**UN number:** 1993  
**UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ethyl acetate)  
**Transport hazard class(es):** 3  
**Packing group:** II  
 Hazard label: 3



**Classification code:** F1  
**Special Provisions:** 640D



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Limited quantity: LQ4, 3 Liter  
 Transport category: 2  
 Hazard-no.: 33  
 Tunnel restriction code: D/E

#### Other applicable information (land transport)

: 274 - 330 - 601 - 640D  
 : 2

#### Inland waterways transport

**UN number:** 1993  
**UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ethyl acetate)  
**Transport hazard class(es):** 3  
**Packing group:** II  
 Hazard label: 3



Classification code: F1  
 Special Provisions: 640D  
 Limited quantity: 1 Liter

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

E2

#### Marine transport

**UN number:** 1993  
**UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ethyl acetate)  
**Transport hazard class(es):** 3  
**Packing group:** II  
 Hazard label: 3



Special Provisions: -  
 Limited quantity: 1 Liter  
 EmS: F-E, S-E

#### Other applicable information (marine transport)

Staukategorie B

#### Air transport

**UN/ID number:** 1993  
**UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ethyl acetate)  
**Transport hazard class(es):** 3  
**Packing group:** II  
 Hazard label: 3



Limited quantity Passenger: 1 L  
 IATA-packing instructions - Passenger: 353



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IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	364
IATA-max. quantity - Cargo:	60 L

#### Other applicable information (air transport)

E2  
: Y341

#### Environmental hazards

Dangerous for the environment: no

### SECTION 15: Regulatory information

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

##### 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 (92/85/EEC) for expectant or nursing mothers.

##### National regulatory information

Employment restrictions: Observe employment restrictions for child bearing mothers and nursing.  
Water contaminating class (D): 2 - water contaminating

#### Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Full text of R-phrases referred to under sections 2 and 3

11	Highly flammable.
36	Irritating to eyes.
43	May cause sensitization by skin contact.
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.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

#### 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.)*