



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 580.000 Renia - Rehagol - Primer for TR

Print date: 15.11.2014

Product code: 580.000

Page 1 of 12

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

##### 1.1. Product identifier

580.000 Renia - Rehagol - Primer for TR

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

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

flameable liquid ; Primer

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

Company name:	Renia Gesellschaft mbH. Chemische Fabrik	
Street:	Ostmerheimer Straße 516	
Place:	D-51109 Köln (Cologne)	
Post-office box:	910659	
	D-51076 Köln (Cologne)	
Telephone:	+49-221-630799-0	Telefax: +49-221-630700-50
e-mail:	info@renia.com	
Contact person:	Heinz Buchholz Dipl.Chem	Telephone: 16
e-mail:	labor@renia.com	
Internet:	www.renia.com	
Responsible Department:	Labor 07:30 - 16:00 Uhr	

##### 1.4. Emergency telephone number:

+49-221-630799-0

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: F - Highly flammable, Xi - Irritant

R phrases:

Highly flammable.

Irritating to eyes.

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

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

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###### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Flammable liquid: Flam. Liq. 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 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Harmful to aquatic life with long lasting effects.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 580.000 Renia - Rehagol - Primer for TR

Print date: 15.11.2014

Product code: 580.000

Page 2 of 12

#### 2.2. Label elements

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

ethyl acetate

Signal word:

Danger

Pictograms:

GHS02-GHS07



##### Hazard statements

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

##### Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor 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 ... to extinguish.
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.

##### Additional advice on labelling

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#### 2.3. Other hazards

In use, may form flammable/explosive vapour-air mixture. Production of corrosive vapours containing chlorine.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 580.000 Renia - Rehagol - Primer for TR

Print date: 15.11.2014

Product code: 580.000

Page 3 of 12

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

chlorine containing composite in an organic solvent

#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
205-500-4	ethyl acetate	50-100 %
141-78-6	F - Highly flammable, Xi - Irritant R11-36-66-67	
607-022-00-5	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066	
01-2119475103-46		
201-782-8	symclosene, trichloro-1,3,5-triazinetriol, trichloroisocyanuric acid	1 - < 5 %
87-90-1	O - Oxidizing, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R8-22-31-36/37-50-53	
613-031-00-5	Ox. Sol. 2, Acute Tox. 4, Eye Irrit. 2, STOT SE 3, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1 (M-Factor = 1); H272 H302 H319 H335 H400 H410 EUH031	

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove affected person from the danger area and lay down.

#### After inhalation

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still. Remove casualty to fresh air and keep warm and at rest.

#### After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Grease skin after contact.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. 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

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

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

Allergic reactions.

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

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



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 580.000 Renia - RehaGol - Primer for TR

Print date: 15.11.2014

Product code: 580.000

Page 4 of 12

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

###### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder. alcohol resistant foam. ABC powder. Atomized water. Dry sand.

###### **Unsuitable extinguishing media**

Water. High power water jet. High power water jet.

##### 5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air. In case of fire and/or explosion do not breathe fumes. In case of fire may be liberated: Hydrogen chloride (HCl).

##### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. 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 jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet 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

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

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Remove all sources of ignition. Provide adequate ventilation.

##### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion Do not allow to enter into surface water or drains. Cover drains.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed containers for disposal.

##### 6.4. Reference to other sections

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling

###### **Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

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

Keep away from sources of ignition. - No smoking. Take precautionary measures against static

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 580.000 Renia - Rehagol - Primer for TR

Print date: 15.11.2014

Product code: 580.000

Page 5 of 12

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

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

##### Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances. Store packaging and combustible materials separately from one another. Keep away from food, drink and animal feeding stuffs.

##### Further information on storage conditions

Floors should be impervious, resistant to liquids and easy to clean.  
Store small packages in a suitable, robust cabinet.

#### 7.3. Specific end use(s)

Coatings and paints, fillers, putties, thinners

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
141-78-6	Ethyl acetate	200	-		TWA (8 h)	WEL
		400	-		STEL (15 min)	WEL

#### 8.2. Exposure controls



##### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

##### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and after work. Before starting work, apply solvent-resistant skincare preparations.

##### Eye/face protection

Suitable eye protection: goggles.

##### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**580.000 Renia - Rehagol - Primer for TR**

Print date: 15.11.2014

Product code: 580.000

Page 6 of 12

above together with the supplier of these gloves. Test suitability of gloves before use.  
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Flame-retardant protective clothing. Wear anti-static footwear and clothing

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Respiratory protection necessary at: insufficient ventilation. With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**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 escape or of entry into waterways, soil or drains, inform the responsible authorities.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state: liquid  
Colour: colourless  
Odour: ester

**Test method**

pH-Value: Test not required.

**Changes in the physical state**

Melting point: -35 °C  
Initial boiling point and boiling range: 77 °C DIN 53 171  
Flash point: -4 °C DIN 51 755

**Flammability**

Solid: not applicable  
Gas: not applicable

Lower explosion limits: 2,1 vol. %  
Upper explosion limits: 11,5 vol. %

Ignition temperature: DIN 51 794

**Auto-ignition temperature**

Solid: not applicable  
Gas: not applicable

Decomposition temperature: not determined

**Oxidizing properties**

Not oxidizing.

Vapour pressure: 97 hPa DIN EN 12  
(at 20 °C)Density (at 20 °C): 0,9 g/cm<sup>3</sup> DIN 51 757

Water solubility: partly miscible, Decomposes in contact with water.

**Solubility in other solvents**

not determined

Partition coefficient: not determined

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**580.000 Renia - Rehagol - Primer for TR**

Print date: 15.11.2014

Product code: 580.000

Page 7 of 12

Viscosity / dynamic: (at 20 °C)	0,35 mPa·s	DIN 51550
Flow time:	< 30 (3 mm)	
Vapour density:	not determined	
Evaporation rate:	not determined	
Solvent separation test:	< 0,1 %	
Solvent content:	98,00 %	

**9.2. Other information**

Solid content: 2,00 %

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Flammable, Ignition hazard. Explosive. 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).

**10.2. 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).

**10.3. Possibility of hazardous reactions**

Gas/vapour, highly flammable.

**10.4. Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Risk of explosion by shock, friction, fire or other sources of ignition. Remove all sources of ignition. Keep away from heat. Ignition hazard. Decomposition takes place from temperatures above: > 150 °C

**10.5. Incompatible materials**

Protect against: Contact with air/oxygen. Acid, concentrated. , Oxidizing agents, strong.

**10.6. Hazardous decomposition products**

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

**SECTION 11: Toxicological information****11.1. 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	Source
141-78-6	ethyl acetate				
	oral	LD50	5600 mg/kg	Rat	
	dermal	LD50	18000 mg/kg	Rabbit	
	inhalative vapour	LC50	58 mg/l	Rat	
87-90-1	symclosene, trichloro-1,3,5-triazinetriion, trichloroisocyanuric acid				
	oral	ATE	500 mg/kg		

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**580.000 Renia - Rehagol - Primer for TR**

Print date: 15.11.2014

Product code: 580.000

Page 8 of 12

**Irritation and corrosivity**

Frequently or prolonged contact with skin may cause dermal irritation.

**Sensitising effects**

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

**STOT-single exposure**

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

**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.

**Aspiration hazard**

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

**Specific effects in experiment on an animal**

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

**Additional information on tests**

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

**SECTION 12: Ecological information****12.1. Toxicity**

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

Longterm fish toxicity Product is easily volatile. Product is slightly soluble in test vehicle. An aqueous dispersion has been tested.

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

**12.2. Persistence and degradability**

The product has not been tested. Product is biodegradable with difficulty.

**12.3. 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	0,6

**12.4. Mobility in soil**

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

**12.5. Results of PBT and vPvB assessment**

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

**12.6. Other adverse effects**

Toxic to aquatic life with long lasting effects.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. The statement is derived from the properties of the components.

**SECTION 13: Disposal considerations**



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 580.000 Renia - RehaGol - Primer for TR

Print date: 15.11.2014

Product code: 580.000

Page 9 of 12

#### 13.1. Waste treatment methods

##### Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

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

070703 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; organic halogenated solvents, washing liquids and mother liquors  
Classified as hazardous waste.

##### Waste disposal number of used product

070703 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; organic halogenated solvents, washing liquids and mother liquors  
Classified as hazardous waste.

##### 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

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

#### SECTION 14: Transport information

##### Land transport (ADR/RID)

**14.1. UN number:** UN1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S., Hazardous Material: Ethyl acetate  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Classification code: F1  
Special Provisions: 274 601 640D  
Limited quantity: 1 L  
Transport category: 2  
Hazard No: 33  
Tunnel restriction code: D/E

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

E2

##### Inland waterways transport (ADN)

**14.1. UN number:** UN1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S., Hazardous Material: Ethyl acetate  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 580.000 Renia - Rehagol - Primer for TR

Print date: 15.11.2014

Product code: 580.000

Page 10 of 12



Classification code: F1  
Special Provisions: 274 601 640D  
Limited quantity: 1 L

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

E2

**Marine transport (IMDG)**

**14.1. UN number:** UN1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S., , Hazardous Material: Ethyl acetate  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Special Provisions: 274  
Limited quantity: 1 L  
EmS: F-E, S-E

**Other applicable information (marine transport)**

Category: A

E2

**Air transport (ICAO)**

**14.1. UN number:** UN1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S., Hazardous Material: Ethyl acetate  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Special Provisions: A3  
Limited quantity Passenger: 1 L  
IATA-packing instructions - Passenger: 353  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 364  
IATA-max. quantity - Cargo: 60 L

**Other applicable information (air transport)**

E2

: Y341

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

Warning: Combustible liquids.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

not applicable

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**580.000 Renia - Rehagol - Primer for TR**

Print date: 15.11.2014

Product code: 580.000

Page 11 of 12

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2010/75/EU (VOC): 98 % (882 g/l)

2004/42/EC (VOC): 98 % (882 g/l)

**Additional information**

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

**National regulatory information**

Employment restrictions: Observe employment restrictions for young people.

Water contaminating class (D): 1 - slightly water contaminating

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Abbreviations and acronyms**ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road )

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

**Relevant R-phrases (Number and full text)**

- |       |   |
|-------|---|
| 08    | Contact with combustible material may cause fire.               |
| 11    | Highly flammable.   |
| 22    | Harmful if swallowed.   |
| 31    | Contact with acids liberates toxic gas.                         |
| 36    | Irritating to eyes.   |
| 36/37 | Irritating to eyes and respiratory system.                      |
| 50    | Very toxic to aquatic organisms.                                |
| 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.                     |

**Relevant H- and EUH-phrases (Number and full text)**

- |        |   |
|--------|---|
| H225   | Highly flammable liquid and vapour.                     |
| H272   | May intensify fire; oxidiser.                           |
| H302   | Harmful if swallowed.                                   |
| H319   | Causes serious eye irritation.                          |
| H335   | May cause respiratory irritation.                       |
| H336   | May cause drowsiness or dizziness.                      |
| H400   | Very toxic to aquatic life.                             |
| H410   | Very toxic to aquatic life with long lasting effects.   |
| H412   | Harmful to aquatic life with long lasting effects.      |
| EUH018 | In use may form flammable/explosive vapour-air mixture. |
| EUH031 | Contact with acids liberates toxic gas.                 |
| EUH066 | Repeated exposure may cause skin dryness or cracking.   |

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**580.000 Renia - Rehagol - Primer for TR**

Print date: 15.11.2014

Product code: 580.000

Page 12 of 12

**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.)*