



Safety Data Sheet

according to Regulation (EC) No. 1907/2006

580.000 Renia - Rehagol - Primer for TR

Print date: 06.06.2011

Product code: 580.000

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

Product identifier

580.000 Renia - Rehagol - Primer for TR

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

Use of the substance/mixture

flameable liquid ; Primer

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.

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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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

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.

Label elements

Signal word: Danger



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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/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. |
| 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 of certain mixtures

- | | |
|--------|---|
| EUH018 | In use may form flammable/explosive vapour-air mixture. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| EUH208 | Contains Kolophonium. May produce an allergic reaction. |

Additional advice on labelling

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Other hazards

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

SECTION 3: Composition/information on ingredients

Mixtures



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Chemical characterization

chlorine containing composite in an organic solvent

Hazardous components

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
205-500-4	ethyl acetate	90-100 %
141-78-6	F, Xi R11-36-66-67	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
11-1111111111-11		
201-782-8	symclosene, trichloro-1,3,5-triazinetriol, trichloroisocyanuric acid	1-5 %
87-90-1	O, Xn, Xi, N R8-22-31-36/37-50-53	
	Ox. Sol. 2, Acute Tox. 4, Eye Irrit. 2, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H272 H302 H319 H335 H400 H410	
00-0000000000-00		

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: Hydrogen



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chloride (HCl).

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 ³	mg/m ³	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: colourless
Odour: ester

pH-Value:

Test not required.

Changes in the physical state

Melting point:	-35 °C	
Boiling point:	40 - 80 °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:		DIN 51 794
Vapour pressure: (at 20 °C)	97 hPa	DIN EN 12
Density (at 20 °C):	0,91 g/cm ³	DIN 51 757
Water solubility:	partly miscible, Decomposes in contact with water.	
Viscosity / dynamic: (at 20 °C)	0,35 mPa·s	DIN 51550
Solvent separation test:	< 0,1 %	
Solvent content:	98,00 %	

Other information



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Solid content:

2,00 %

SECTION 10: Stability and reactivity

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.

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
87-90-1	symclosene, trichloro-1,3,5-triazinetriol, trichloroisocyanuric acid				
	Acute oral toxicity	ATE	500 mg/kg		

Specific effects in experiment on an animal

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

Irritation and corrosivity

Frequently or prolonged contact with skin may cause dermal 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.



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SECTION 12: Ecological information

Toxicity

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	Species	h
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 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

Completely emptied packings can be re-cycled.



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SECTION 14: Transport information

Land transport (ADR/RID)

UN number: 1173
UN proper shipping name: FLAMMABLE LIQUID, N.O.S.
Transport hazard class(es): 3
Packing group: II
 Hazard label: 3



Classification code: F1
 Limited quantity: 1 L
 Transport category: 2
 Hazard-no.: 33
 Tunnel restriction code: D/E

Other applicable information (land transport)

E2

Inland waterways transport

UN number: 1173
UN proper shipping name: 1993 - Flammable liquid, n.o.s. (ethyl acetate)
Transport hazard class(es): 3
Packing group: II
 Hazard label: 3



Classification code: F1
 Limited quantity: 1 L

Other applicable information (inland waterways transport)

E2

Marine transport

UN number: 1173
UN proper shipping name: ETHYL ACETATE
Transport hazard class(es): 3
Packing group: II
 Hazard label: 3



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

Other applicable information (marine transport)

Category: A



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E2

Air transport

UN/ID number: 1173
UN proper shipping name: 1993 - 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
 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): 98 % (891,8 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

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.
 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 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.



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

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.

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.)