



# Safety Data Sheet

according to 29 CFR 1910.1200(g)

## 131.000 Renia - Klebest ff Contact Adhesive tf

Revision date: 04.01.2018

Product code: 131.000

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### 1. Identification

#### Product identifier

131.000 Renia - Klebest ff Contact Adhesive tf

#### Recommended use of the chemical and restrictions on use

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

- Adhesives, sealants
- Roller application or brushing of adhesive and other coating.
- Reserved for industrial and professional use.

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

##### **Manufacturer**

Company name:	Renia Gesellschaft mbH. Chemische Fabrik	
	D	
Street:	Ostmerheimer Straße 516	
Place:	D-51109 Köln (Cologne)	
Post-office box:	910659	
	D-51076 Köln (Cologne)	
Telephone:	+49-221-630799-0	Telefax: +49-221-630799-50
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	

##### **Supplier**

Company name:	Renia USA Inc.	
	USA	
Street:	6180 Atlantic Blvd, Suite N	
Place:	USA-30071 Norcross GA	
Telephone:	+1-770-713-2295	
e-mail:	rainer-buchholz@renia.com	
Contact person:	Dr. Rainer Buchholz	Telephone: +1-770-713-2295
e-mail:	rainer-buchholz@renia.com	
Internet:	www.renia.us	
Responsible Department:	Research: labor@renia.com	

**Emergency phone number:** Infotrac: 1-800-535-5053

### 2. Hazard(s) identification

#### Classification of the chemical

##### **29 CFR Part 1910.1200**

- Hazard categories:
- Flammable liquids: Flam. Liq. 2
  - Skin corrosion/irritation: Skin Irrit. 2
  - Serious eye damage/eye irritation: Eye Irrit. 2A
  - Respiratory or skin sensitization: Skin Sens. 1
  - Specific target organ toxicity single exposure: STOT SE 3
- Hazard Statements:
- Highly flammable liquid and vapor
  - Causes skin irritation
  - Causes serious eye irritation
  - May cause an allergic skin reaction
  - May cause drowsiness or dizziness

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Labelling according to Hazard Communication Standard 29 CFR 1910.1200.

#### Label elements

##### 29 CFR Part 1910.1200

Signal word: Danger

Pictograms:



#### **Hazard statements**

Highly flammable liquid and vapor  
Causes skin irritation  
May cause an allergic skin reaction  
Causes serious eye irritation  
May cause drowsiness or dizziness

#### **Precautionary statements**

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Read label before use.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash ... thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
Specific treatment (see ... on this label).  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash with plenty of water.  
Take off contaminated clothing and wash it before reuse.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
Call a poison center/doctor if you feel unwell.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
In case of fire: Use ... to extinguish.  
Keep cool.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Dispose of contents/container to waste management.

#### **Additional advice on labelling**

Labelling according to Hazard Communication Standard 29 CFR 1910.1200.

#### **Hazards not otherwise classified**

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

### 3. Composition/information on ingredients

#### Mixtures

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**Chemical characterization**

polychloroprene adhesive with modified synthetic resins and stabilizers in a mixture of organic solvents

**Hazardous components**

CAS No	Components	Quantity
141-78-6	ethyl acetate	40 - 50 %
64742-49-0	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	30 - 40 %
8050-09-7	Rosin, colophony	0.1 - 0.5 %

**4. First-aid measures****Description of first aid measures****General information**

Remove affected person from the danger area and lay down.

**After inhalation**

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

**After contact with skin**

Take off contaminated clothing and wash it before reuse. 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**

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.

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

Allergic reactions.

**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.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**Carbon dioxide (CO<sub>2</sub>), alcohol resistant foam. Extinguishing powder, ABC powder. Atomized water. Dry sand.**Unsuitable extinguishing media**

High power water jet. High power water jet.

**Specific hazards arising from the chemical**

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). Burning produces heavy smoke.

**Special protective equipment and precautions for fire-fighters**

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

**Additional information**

Suppress gases/vapours/mists with water spray jet. Use water spray jet to protect personnel and to cool endangered containers. Remove product from area of fire. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

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

**Environmental precautions**

Do not allow to enter into surface water or drains. 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). Treat the recovered material as prescribed in the section on waste disposal.

**Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

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 heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Vapours / aerosols must be extracted by suction immediately at point of origin. Take precautionary measures against static discharges.

**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**

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 feedingstuffs.

**Further information on storage conditions**

Floors should be impervious, resistant to liquids and easy to clean.

Store small packages in a suitable, robust cabinet.

**8. Exposure controls/personal protection****Control parameters****Exposure limits**

CAS No.	Substance	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
141-78-6	Ethyl acetate	400	1400		TWA (8 h)	PEL
		400	1400		TWA (8 h)	REL

**Exposure controls**

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#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Protective and hygiene measures

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

#### Eye/face protection

Tightly sealed safety glasses.

#### Hand protection

Test suitability of gloves before use.

Suitable material: Butyl caoutchouc (butyl rubber)

Thickness of the glove material : 0,5 mm

Breakthrough time (maximum wearing time) :  $\geq 1$  h

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

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

#### 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. Combination filtering device (EN 14387) Use the following filter types for cleaning waste gases: A-P2

#### Environmental exposure controls

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state:	liquid
Color:	light yellow
Odor:	ester

pH-Value:	not applicable	<b>Test method</b>
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#### Changes in the physical state

Melting point/freezing point:	not determined
Initial boiling point and boiling range:	65 °C DIN 53 171
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Flash point:	-18 °C DIN 51 755
Sustaining combustion:	No data available

#### Flammability

Solid:	not applicable
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Gas: not applicable

**Explosive properties**

Vapours can form explosive mixtures with air.

Lower explosion limits: 1 vol. %

Upper explosion limits: 11,5 vol. %

Ignition temperature: 200 °C DIN 51 794

**Auto-ignition temperature**

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

**Oxidizing properties**

Not oxidising.

Vapor pressure: 175 hPa DIN EN 12  
(at 20 °C)

Vapor pressure: 950 hPa

Density (at 20 °C): 0,84 g/cm<sup>3</sup> DIN 51 757

Bulk density: not applicable

Water solubility: The study does not need to be conducted  
because the substance is known to be  
insoluble in water**Solubility in other solvents**

not determined

Partition coefficient: not determined

Viscosity / dynamic: 1200-3000 mPa·s DIN 51550  
(at 20 °C)Flow time: > 300 (3 mm)  
(at 20 °C)

Vapor density: not determined

Evaporation rate: not determined

Solvent separation test: &lt; 0,1 %

Solvent content: 79,50 %

**Other information**

Solid content: 20,50 %

**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**

Stability: Stable

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**

Hazardous reactions: Will not occur

Gas/vapour, highly flammable. Vapours can form explosive mixtures with air.

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**Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
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.

**11. Toxicological information****Information on toxicological effects****Toxicokinetics, metabolism and distribution**

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

**Acute toxicity**

Based on available data, the classification criteria are not met.

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

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
141-78-6	ethyl acetate				
	oral	LD50 5600 mg/kg	Rat		
	dermal	LD50 18000 mg/kg	Rabbit		
	inhalative (4 h) vapour	LC50 58 mg/l	Rat		
64742-49-0	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha				
	oral	LD50 5000 mg/kg	Rat		
	dermal	LD50 3160 mg/kg	Rabbit		
	inhalative (4 h) vapour	LC50 25 mg/l	Rat		
8050-09-7	Rosin, colophony				
	oral	LD50 >2000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rabbit		

**Irritation and corrosivity**

Causes skin irritation  
Causes serious eye irritation  
Frequently or prolonged contact with skin may cause dermal irritation.

**Sensitizing effects**

May cause an allergic skin reaction (Rosin, colophony)  
May cause sensitization by inhalation and skin contact. Contains: Kolophonium

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

Based on available data, the classification criteria are not met.  
There are no data available on the preparation/mixture itself.

**Specific target organ toxicity (STOT) - single exposure**

May cause drowsiness or dizziness (ethyl acetate)

**Specific target organ toxicity (STOT) - repeated exposure**

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Based on available data, the classification criteria are not met.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Inhalation causes narcotic effects/intoxication.

Carcinogenicity (OSHA): No ingredient of this mixture is listed.  
Carcinogenicity (IARC): No ingredient of this mixture is listed.  
Carcinogenicity (NTP): No ingredient of this mixture is listed.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Specific effects in experiment on an animal**

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

**Additional information on tests**

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

**12. Ecological information****Ecotoxicity**

Toxic 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.

**Persistence and degradability**

Product is biodegradable with difficulty.

**Bioaccumulative potential**

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

**Mobility in soil**

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

**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.

**13. Disposal considerations****Waste treatment methods****Advice on disposal**

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

**Contaminated packaging**

Dispose according to legislation. Completely emptied packages can be recycled.

**14. Transport information****US DOT 49 CFR 172.101**

**UN/ID number:** UN 1133  
**Proper shipping name:** Adhesives  
**Transport hazard class(es):** 3  
**Packing group:** III  
Hazard label: 3

**Marine transport (IMDG)**

**UN number:** UN 1133  
**UN proper shipping name:** Adhesives Hazardous Material: Naphta



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**Transport hazard class(es):** 3**Packing group:** III

Hazard label: 3



Marine pollutant: No

Limited quantity: 5 L

Excepted quantity: E1

EmS: F-E, S-D

**Other applicable information (marine transport)**

Category: A

Additional information on classification : 2.3.2.2 IMDG-Code

**Air transport (ICAO-TI/IATA-DGR)****UN number:** UN 1133**UN proper shipping name:** Adhesives Hazardous Material: Naphta**Transport hazard class(es):** 3**Packing group:** III

Hazard label: 3



Limited quantity Passenger: 10 L

Passenger LQ: Y344

Excepted quantity: E1

IATA-packing instructions - Passenger: 355

IATA-max. quantity - Passenger: 60 L

IATA-packing instructions - Cargo: 366

IATA-max. quantity - Cargo: 220 L

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: yes

**Special precautions for user**

Warning: Combustible liquid.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**15. Regulatory information****U.S. Regulations****National regulatory information**

SARA Section 304 CERCLA:

Ethyl acetate (141-78-6): Reportable quantity = 5,000 (2270) lbs. (kg)

SARA Section 311/312 Hazards:

Ethyl acetate (141-78-6): Fire hazard, Immediate (acute) health hazard

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha (64742-49-0): Fire hazard, Immediate (acute) health hazard

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Rosin, colophony (8050-09-7): Immediate (acute) health hazard

#### State Regulations

##### Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

##### Additional information

Provide local exhaust ventilation in sufficient volume and pattern so as to maintain exposures below nuisance dust limits and permissible exposure limits which are listed in this section (above). Refer to industrial ventilation - a manual for recommended practice - American Conference of Governmental Industrial Hygienists. In restricted ventilation areas a NIOSH approved chemical cartridge respirator may be required. Under certain conditions such as spraying a mechanical prefilter may also be required. In confined areas use a NIOSH/MSHA approved organic vapor chemical cartridge respirator. If the TLV's listed in this section are exceeded, use a properly fitted NIOSH/MSHA approved respirator with an appropriate protection factor. Refer to OSHA 29 CFR 1910.134 "Respiratory Protection" and Respiratory Protection A Manual and Guideline, American Industrial Hygiene Assoc.

#### 16. Other information

##### Hazardous Materials Information Label (HMIS)

Health:	1
Flammability:	4
Physical Hazard:	1
Personal Protection:	C

##### NFPA Hazard Ratings

Health:	1
Flammability:	4
Reactivity:	0
Unique Hazard:	

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##### 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%

##### Other data

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.)*