

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**830 Renia - GP-Atom - superglue**

Revision date: 04.01.2018

Product code: 830.000

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**1. Identification****Product identifier**

830 Renia - GP-Atom - superglue

CAS No: 7085-85-0

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Adhesives, sealants

**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)

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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

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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. 4

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2A

Respiratory or skin sensitization: Skin Sens. 1

Carcinogenicity: Carc. 2

Specific target organ toxicity single exposure: STOT SE 3

Hazard Statements:

Combustible liquid

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

Suspected of causing cancer

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May cause respiratory irritation

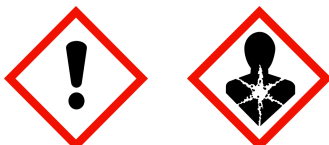
Labelling according to Hazard Communication Standard 29 CFR 1910.1200.

#### Label elements

##### 29 CFR Part 1910.1200

Signal word: Warning

Pictograms:



#### **Hazard statements**

- Combustible liquid
- Causes skin irritation
- May cause an allergic skin reaction
- Causes serious eye irritation
- May cause respiratory irritation
- Suspected of causing cancer

#### **Precautionary statements**

- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Wash hands 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: Wash with plenty of water.
- Specific treatment (see ... on this label).
- 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.
- If exposed or concerned: Get medical advice/attention.
- In case of fire: Use ... to extinguish.
- 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**

Cyanacrylate! Danger! Skin and eyelids will stick together in seconds. Keep out of the reach of children.

### 3. Composition/information on ingredients

#### Substances

##### **Chemical characterization**

adhesive based on cyanacrylacid-ethylester

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**Hazardous components**

CAS No	Components	Quantity
7085-85-0	ethyl 2-cyanoacrylate	90-100 %
123-31-9	1,4-dihydroxybenzene; hydroquinone; quinol	< 1%

**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.

**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.

**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.

**Specific hazards arising from the chemical**

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.

**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.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Keep wet with water. 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**

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: 2 - 8 °C Ensure adequate ventilation of the storage area.

##### **Advice on storage compatibility**

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. Protect against direct sunlight.

## 8. Exposure controls/personal protection

#### Control parameters

#### **Exposure limits**

CAS No.	Substance	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
123-31-9	Hydroquinone	-	2		TWA (8 h)	PEL

#### Exposure controls



##### **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.

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Suitable material: Butyl caoutchouc (butyl rubber)

Thickness of the glove material : 0,5 mm

Breakthrough time (maximum wearing time) : &gt;= 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:	colourless clear
Odor:	ester-like, stinging

pH-Value:	4,6	<b>Test method</b>
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**Changes in the physical state**

Melting point/freezing point:	-30 °C	
Initial boiling point and boiling range:	200 °C	DIN 53 171
Sublimation point:	not determined	
Softening point:	not determined	
Pour point:	not determined	
Flash point:	81 °C	DIN 51 755
Sustaining combustion:	Sustaining combustion	

**Flammability**

Solid:	not applicable
Gas:	not applicable

**Explosive properties**

negative, no explosion

Lower explosion limits:	not applicable
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Upper explosion limits:	not applicable
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Ignition temperature:	155 °C	DIN 51 794
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**Auto-ignition temperature**

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
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**Oxidizing properties**

Not oxidising.

Vapor pressure: (at 20 °C)	0,5 hPa	DIN EN 12
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Vapor pressure:	not determined
Density (at 20 °C):	1,1 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, Polymerisation

**Solubility in other solvents**

not determined

Partition coefficient: not determined

Viscosity / dynamic: (at 20 °C) 40 - 2500 mPa·s DIN 53018

Viscosity / kinematic: not determined

Flow time: &gt; 120 (3 mm)

Vapor density: not determined

Evaporation rate: not determined

Solvent separation test: not determined

Solvent content: 0 %

**Other information**

Solid content: not determined

**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**

Polymerisation Humidity

**Conditions to avoid**

Humidity

**Incompatible materials**

Alkali (lye), Alcohols, Amines, Water

**Hazardous decomposition products**

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

**11. Toxicological information****Information on toxicological effects****Acute toxicity**

Based on available data, the classification criteria are not met.  
Health injuries are not known or expected under normal use.

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CAS No	Components				
	Exposure route	Dose	Species	Source	Method
7085-85-0	ethyl 2-cyanoacrylate				
	oral	LD50 5000 mg/kg	Rat	OECD 401	
	dermal	LD50 2000 mg/kg	Rabbit		
123-31-9	1,4-dihydroxybenzene; hydroquinone; quinol				
	oral	LD50 302 mg/kg	Rat	IUCLID	

**Irritation and corrosivity**

Causes skin irritation

Causes serious eye irritation

Inhalation of vapours may cause irritation of the respiratory system in very susceptible persons. May cause skin and eye irritation in susceptible persons.

**Sensitizing effects**

May cause an allergic skin reaction (1,4-dihydroxybenzene; hydroquinone; quinol)

May cause sensitization of susceptible persons by inhalation of aerosol or dust.

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

Suspected of causing cancer (1,4-dihydroxybenzene; hydroquinone; quinol)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

none CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

May cause respiratory irritation (ethyl 2-cyanoacrylate)

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

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

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

No data is available on the product itself.

Carcinogenicity (OSHA): Not listed.

Carcinogenicity (IARC): Hydroquinone (CAS 123-31-9) is listed in group 3.

Carcinogenicity (NTP): Not listed.

**Aspiration hazard**

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

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

**Specific effects in experiment on an animal**

no data available No data is available on the product itself.

**Additional information on tests**

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

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

Acute fish toxicity =

LC50/48h/golden orfe = 100 mg/l

**Persistence and degradability**

not applicable Polymerisation

**Bioaccumulative potential**

not applicable Polymerisation

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**Mobility in soil**

not applicable Polymerisation

**Other adverse effects**

not determined

**Further information**

Do not empty into drains.

**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****Marine transport (IMDG)****UN proper shipping name:**

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

Marine pollutant:

No

**Air transport (ICAO-TI/IATA-DGR)****UN proper shipping name:**

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

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

SARA Section 302 Extremely hazardous substances:

Hydroquinone (123-31-9): Reportable quantity = 100 lbs., Threshold planning quantity = 500/10,000 lbs.

SARA Section 304 CERCLA:

Hydroquinone (123-31-9): Reportable quantity = 100 (45.4) lbs. (kg)

SARA Section 311/312 Hazards:

ethyl 2-cyanoacrylate (7085-85-0): Immediate (acute) health hazard

Hydroquinone (123-31-9): Delayed (chronic) health hazard, Immediate (acute) health hazard

SARA Section 313 Toxic release inventory:

Hydroquinone (123-31-9): De minimis limit = 1.0 %, Reportable threshold = Standard

Clean Air Act Section 112(b):

Hydroquinone (123-31-9)

**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.

**16. Other information**

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**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route



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(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.