

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

834 GP-Atom Sekundenkleber CA Superglue

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

Adhesives, sealants

1.3 Details of the supplier of the safety data sheet**Supplier**

Renia Gesellschaft mbH
Ostmerheimer Straße 516 Telephone: +492216307990
51109 Köln E-mail: info@renia.com
Deutschland Website: www.renia.com

Department responsible for information

E-mail (competent person) labor@renia.com

1.4 Emergency telephone number

Emergency telephone number Grimme: +49-221-630799-17
Only available during office hours.

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 [CLP]**

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

Flam. Liq. 4; H227

Eye Irrit. 2; H319

STOT SE 3 Irritation to respiratory tract ; H335

Skin Irrit. 2; H315

* Aquatic Acute 3 acute ; H402

2.2 Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]****Hazard pictograms****Signal word**

Warning

Hazard statements

H227 Combustible liquid.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H315 Causes skin irritation.
* H402 Harmful to aquatic life.

Precautionary Statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapours.
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.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use extinguishing powder or sand to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to industrial incineration plant.

Hazard components for labelling

ethyl 2-cyanoacrylate

2.3 Other hazards

No information available.

SECTION 3: Composition / information on ingredients**3.2 Mixtures****Description**

adhesive based on cyanacrylacid-ethylester

Hazardous ingredients

CAS No. EC No. INDEX No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	Wt %
* 7085-85-0 230-391-5 607-236-00-9	ethyl 2-cyanoacrylate 01-2119527766-29-0001 Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / STOT SE 3 H335 Specific concentration limit (SCL): STOT SE 3 H335: >= 10,00	85,0 < 90,0
* 123-31-9 204-617-8 604-005-00-4	1,4-dihydroxybenzene 01-2119524016-51 Acute Tox. 4 H302 / Skin Sens. 1 H317 / Eye Dam. 1 H318 / Muta. 2 H341 / Carc. 2 H351 / Aquatic Acute 1 H400 (M = 10,00) / Aquatic Chronic 1 H410 (M = 1,00)	0 < 0,1

Remark

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

not applicable

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

Self-protection of the first aider

First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3 Indication of any immediate medical attention and special treatment needed

No special measures are necessary.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO₂), Powder, spray mist, (water)

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3 Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ventilate affected area. Do not breathe vapours.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

For containment

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

For cleaning up

Clean using cleansing agents. Do not use solvents.

6.4 Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling

Avoid contact with skin, eyes and clothes. Avoid respiration of swarf. Personal protection equipment: see section 8 Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Advices on general occupational hygiene

When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Keep container tightly closed. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Store in a well-ventilated and dry room at temperatures between 2 °C and 8 °C.

7.3 Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values**

CAS No.	Substance name	Source	Long-term /short-term (Spitzenbegrenzung)
* 123-31-9	1,4-dihydroxybenzene	ACGIH	1 / - (-) mg/m ³
* 123-31-9	1,4-dihydroxybenzene	OSHA	2 / - (-) mg/m ³
7085-85-0	ethyl 2-cyanoacrylate	ACGIH	- / - (-) mg/m ³

Additional information

Long-term: long-term occupational exposure limit value
short-term: short-term occupational exposure limit value

Biological limit values

No data available

*** DNEL worker**

CAS No.	Substance name	DNEL type	DNEL value
* 123-31-9	1,4-dihydroxybenzene	DNEL long-term dermal (systemic)	128 mg/kg bw/day
* 123-31-9	1,4-dihydroxybenzene	DNEL long-term inhalative (systemic)	7 mg/m ³
* 123-31-9	1,4-dihydroxybenzene	DNEL long-term inhalative (local)	1 mg/m ³

*** DNEL Consumer**

CAS No.	Substance name	DNEL type	DNEL value
* 123-31-9	1,4-dihydroxybenzene	DNEL long-term dermal (systemic)	64 mg/kg bw/day
* 123-31-9	1,4-dihydroxybenzene	DNEL long-term inhalative (systemic)	1,747 mg/m ³
* 123-31-9	1,4-dihydroxybenzene	DNEL long-term inhalative (local)	0,5 mg/m ³

*** PNEC**

CAS No.	Substance name	PNEC type	PNEC Value
* 123-31-9	1,4-dihydroxybenzene	PNEC aquatic, freshwater	0,114 µg/l
* 123-31-9	1,4-dihydroxybenzene	PNEC aquatic, marine water	0,011 µg/l
* 123-31-9	1,4-dihydroxybenzene	PNEC sediment, freshwater	0,001 mg/kg
* 123-31-9	1,4-dihydroxybenzene	PNEC sediment, marine water	0 mg/kg
* 123-31-9	1,4-dihydroxybenzene	PNEC soil, freshwater	0 mg/kg
* 123-31-9	1,4-dihydroxybenzene	PNEC sewage treatment plant (STP)	0,71 mg/l

8.2 Exposure controls

Provide good ventilation. This can be achieved with local or room suction.

Personal protection equipment**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

Hand protection

Suitable material: NBR (Nitrile rubber)
 Thickness of the glove material: 0,4 mm
 Breakthrough time (maximum wearing time): 480 min

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. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin.

Recommended glove articles: EN ISO 374

Skin protection

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Eye glasses with side protection

Body protection

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

Environmental exposure controls

Do not allow to enter into surface water or drains.

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

Physical state	liquid
Colour	transparent

Safety characteristics

Odour	characteristic
Odour threshold	not determined
* pH	not determined
* Melting point/freezing point	not determined
* Initial boiling point and boiling range	150 °C
* Flash point	87 °C
Evaporation rate at 20°C	not determined
Burning time (s)	not applicable
Lower explosion limit at 20°C	not applicable
Upper explosion limit at 20°C	not applicable
* Vapour pressure at 20°C	not determined
Density at 20°C	1,04 kg/l
Water solubility (g/L) at 20°C	not determined
Partition coefficient: n-octanol/water	see section 12
* Ignition temperature in °C	500 °C
Decomposition temperature	not determined
Viscosity	175 mPas
Explosive properties	not relevant
Oxidising properties	not relevant

9.2 Other information

not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3 Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4 Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: Carbon dioxide (CO₂), Carbon monoxide, smoke.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

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

*** 1,4-dihydroxybenzene**

LD50: oral (Rat): = 367 mg/kg; (OECD 401)

* LC50: inhalative (Rat): > 7,8 mg/l (1 h); (OECD 403)

* LD50: dermal (Rabbit): > 2.000 mg/kg; (OECD 402)

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

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

Aspiration hazard

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

Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: Headache, Dizziness, fatigue, amyosthenia, Drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

SECTION 12: Ecological information**12.1 Toxicity**

* Harmful to aquatic life.

Acute (short-term) fish toxicity**1,4-dihydroxybenzene**

LC50: (Oncorhynchus mykiss (Rainbow trout)): = 0,638 mg/l (96 h)
Method: OECD 203

Acute (short-term) toxicity to aquatic algae and cyanobacteria

* **1,4-dihydroxybenzene**

ErC50: (Pseudokirchneriella subcapitata): = 0,33 mg/l (72 h)
Method: OECD 201

Acute (short-term) toxicity to crustacea

* **1,4-dihydroxybenzene**

EC50 (Daphnia magna (Big water flea)): = 0,134 mg/l (48 h)
Method: OECD 202

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

* Partition coefficient: n-octanol/water = 0,59

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Do not empty into drains; dispose of this material and its container in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Waste codes/waste designations according to EWC/AVV

080410 - waste adhesives and sealants other than those mentioned in 08 04 09

Other disposal recommendations

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1 UN number

not applicable

14.2 UN proper shipping name

Land transport (ADR/RID)

No dangerous good in sense of these transport regulations.

Sea transport (IMDG)

No dangerous good in sense of these transport regulations.

Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

not applicable

14.4 Packing group

not applicable

14.5 Environmental hazards

Land transport (ADR/RID) not applicable

Sea transport (IMDG) not applicable

14.6 Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage. Advices on safe handling: see parts 6 - 8

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No transport as bulk according to IBC Code.

14.8 Additional information**Land transport (ADR/RID)**

not applicable

Sea transport (IMDG)

not applicable

Air transport (ICAO-TI / IATA-DGR)

Additional information: No data available

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

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Directive 2010/75/EU on industrial emissions

VOC-value (in g/L): < 1

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]**Hazard categories / Named dangerous substances**

This product is not classified according to Directive 2012/18/EU.

National regulations**15.2 Chemical Safety Assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

	REACH No.	Substance name
*	01-2119524016-51	1,4-dihydroxybenzene
	01-2119527766-29-0001	ethyl 2-cyanoacrylate

SECTION 16: Other information

Relevant R-, H- and EUH-phrases (Number and full text)

*	H302	Harmful if swallowed.
	H315	Causes skin irritation.
*	H317	May cause an allergic skin reaction.
*	H318	Causes serious eye damage.
	H319	Causes serious eye irritation.
	H335	May cause respiratory irritation.
*	H341	Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
*	H351	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
*	H400	Very toxic to aquatic life.
*	H410	Very toxic to aquatic life with long lasting effects.

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

	Flam. Liq. 4	On basis of test data.
	Eye Irrit. 2	Calculation method.
	STOT SE 3 Irritation to respiratory tract	Calculation method.
	Skin Irrit. 2	Calculation method.
*	Aquatic Acute 3 acute	Calculation method.

Abbreviations and acronymsFor abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>**Indication of changes**

Safety Data Sheet



834
Version 5.0

GP-Atom Sekundenkleber CA Superglue
Revision date Jul 10, 2020

Print date Jul 10, 2020

* Data changed compared with the previous version