

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

200.000 Renia - SuperFIX - Contact Cement

Print date: 15.11.2014

Product code: 200.000

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1. Identification**Product identifier**

200.000 Renia - SuperFIX - Contact Cement

Details of the supplier of the safety data sheet**Manufacturer**

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

Supplier

Company name: Renia USA Inc.
Street: 6180 Atlantic Blvd, Suite N
Place: USA-30071 Norcross GA
Telephone: +1-770-713-2295
e-mail: rainer-buchholz@renia.us
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**

Hazard categories:
Flammable liquid: Flam. Liq. 2
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2A
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 drowsiness or dizziness

Label elements

Signal word: Danger
Pictograms: flame; exclamation mark

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Hazard statements

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

Precautionary statements

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.
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 occurs: Get medical advice/attention.
Wash with plenty of water.
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

Special labelling of certain mixtures

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

Additional advice on labelling

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.

Hazards not otherwise classified

In use, may form flammable/explosive vapour-air mixture.

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
64742-49-0	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	30-40 %
141-78-6	ethyl acetate	20-30 %
110-82-7	cyclohexane	20-30 %

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. 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

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 (CO₂), Foam, Extinguishing powder. alcohol resistant foam. ABC powder. Atomized water. Dry sand.

Unsuitable extinguishing media

Water. 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

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.



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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.

6. Accidental release measures

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.

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.

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.

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 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 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.

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.

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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 ³	f/cc	Category	Origin
64742-49-0	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	200	1000		TWA (8 h)	AGW
110-82-7	cyclohexane	200	700		TWA (8 h)	AGW
		200	700		TWA (8 h)	AGW
141-78-6	Ethyl acetate	400	1400		TWA (8 h)	PEL
		400	1400		TWA (8 h)	REL

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 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.

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9. Physical and chemical properties**Information on basic physical and chemical properties**

Physical state: liquid
Color: light yellow
Odor: ester

Test method

pH-Value: Test not required.

Changes in the physical state

Melting point/freezing point: not determined
Initial boiling point and boiling range: 65 °C DIN 53 171
Flash point: -18 °C DIN 51 755

Flammability

Solid: not applicable
Gas: not applicable

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 oxidizing.

Vapor pressure: 175 hPa DIN EN 12
(at 20 °C)
Vapor pressure: 950 hPa
(at 50 °C)

Density (at 20 °C): 0,81 g/cm³ DIN 51 757

Water solubility: insoluble

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)

Vapour density: not determined

Evaporation rate: not determined

Solvent separation test: < 0,1 %

Solvent content: 79,70 %

Other information

Solid content: 20,30 %

10. Stability and reactivity

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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).

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.

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

Incompatible materials

Protect against: Contact with air/oxygen. 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

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

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.

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].

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

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

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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. Do not let product enter drains.

13. Disposal considerations

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.

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.

14. Transport information

US DOT 49 CFR 172.101

<u>UN/ID number:</u>	UN1133
<u>Proper shipping name:</u>	Adhesives, containing a flammable liquid
<u>Transport hazard class(es):</u>	3
<u>Packing group:</u>	III
Hazard label:	3

Marine transport (IMDG)

<u>UN number:</u>	UN1133
<u>UN proper shipping name:</u>	Adhesives
<u>Transport hazard class(es):</u>	3
<u>Packing group:</u>	III
Hazard label:	3



Limited quantity:	5 L
EmS:	F-E, S-D

Other applicable information

Category: A
Staukategorie A
E1
Additional information on classification : 2.3.2.3 IMDG-Code

Air transport (ICAO)

<u>UN number:</u>	UN1133
<u>UN proper shipping name:</u>	Adhesives

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

Hazard label: 3



Limited quantity Passenger: 10 L

IATA-packing instructions - Passenger: 355

IATA-max. quantity - Passenger: 60 L

IATA-packing instructions - Cargo: 366

IATA-max. quantity - Cargo: 220 L

Other applicable information

E3

: Y344

E1

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

**Special precautions for user**

Warning: Combustible liquids.

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

not applicable

15. Regulatory information**U.S. Regulations****State Regulations**

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

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NFPA Hazard Ratings

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



Revision date: 15.11.2014

Revision No: 2,19

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.)