

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

255
Version 3.2

Tack-O-Colle
Revision date 11-Mar-2021

Print date 11-Mar-2021

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

1.1 Product identifier

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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. 2; flammable liquids; H225 Highly flammable liquid and vapour.
- * Eye Irrit. 2; Serious eye damage/eye irritation; H319 Causes serious eye irritation.
- * STOT SE 3 Narcotic effects; STOT-single exposure; H336 May cause drowsiness or dizziness.
- * Skin Irrit. 2; Skin corrosion/irritation; H315 Causes skin irritation.
- * Aquatic Chronic 2; Hazardous to the aquatic environment; H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



* **Signal word**

Danger

* **Hazard statements**

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H315 Causes skin irritation.
H411 Toxic to aquatic life with long lasting effects.

* **Precautionary Statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves and eye/face protection.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P370 + P378 In case of fire: Use extinguishing powder or sand to extinguish.
P391 Collect spillage.
P403 + P235 Store in a well-ventilated place. Keep cool.

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* **Hazard components for labelling**
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

* **Supplemental hazard information**
not applicable

2.3 Other hazards
No information available.

SECTION 3: Composition / information on ingredients

3.2 Mixtures

* **Description**

* Styrene block copolymers, modified synthetic resins and stabilizers in a mixture of acetone, cyclohexane and hydrocarbons, C6-C7.

Hazardous ingredients

*

CAS No. EC No. INDEX No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	weight-%
- 921-024-6 649-328-00-1	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 01-2119475514-35 Flam. Liq. 2 H225 / Asp. Tox. 1 H304 / Skin Irrit. 2 H315 / STOT SE 3 H336 / Aquatic Chronic 2 H411 / EUH066	25,0 < 35,0
67-64-1 200-662-2 606-001-00-8	Acetone 01-2119471330-49 Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	15,0 < 20,0
110-82-7 203-806-2 601-017-00-1	cyclohexane 01-2119463273-41-0000 Flam. Liq. 2 H225 / Asp. Tox. 1 H304 / Skin Irrit. 2 H315 / STOT SE 3 H336 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	10,0 < 15,0

* **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.

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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.

7.3 Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

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8.1 Control parameters

* **Occupational exposure limit values**

CAS No.	Substance name	Source	Long-term /short-term (Spitzenbegrenzung)
67-64-1	Acetone	WEL	1.210 / 3.620 (-) mg/m ³
110-82-7	cyclohexane	WEL	350 / 1.050 (-) 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
67-64-1	Acetone	DNEL acute inhalative (systemic)	2.420 mg/l
67-64-1	Acetone	DNEL long-term inhalative (systemic)	1.210 mg/l
67-64-1	Acetone	DNEL long-term dermal (systemic)	186 mg/kg
-	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	DNEL long-term dermal (systemic)	773 mg/kg
-	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	DNEL long-term inhalative (systemic)	2.035 mg/m ³
110-82-7	cyclohexane	DNEL long-term dermal (systemic)	2.016 mg/kg
110-82-7	cyclohexane	DNEL long-term inhalative (systemic)	0,7 mg/l

* **DNEL Consumer**

CAS No.	Substance name	DNEL type	DNEL value
67-64-1	Acetone	DNEL long-term dermal (systemic)	62 mg/kg
67-64-1	Acetone	DNEL long-term inhalative (systemic)	200 mg/l
67-64-1	Acetone	DNEL long-term oral (repeated)	62 mg/kg
-	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	DNEL long-term dermal (systemic)	699 mg/kg
-	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	DNEL long-term inhalative (systemic)	608 mg/m ³
-	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	DNEL long-term oral (repeated)	699 mg/kg
110-82-7	cyclohexane	DNEL long-term oral (repeated)	59,4 mg/kg
110-82-7	cyclohexane	DNEL long-term dermal (systemic)	699 mg/kg
110-82-7	cyclohexane	DNEL long-term inhalative (systemic)	0,7 mg/l

* **PNEC**

CAS No.	Substance name	PNEC type	PNEC Value
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67-64-1	Acetone	PNEC aquatic, freshwater	10,6 mg/l
67-64-1	Acetone	PNEC aquatic, marine water	1,06 mg/l
67-64-1	Acetone	PNEC sediment, freshwater	30,4 mg/l
67-64-1	Acetone	PNEC sediment, marine water	3,04 mg/l
67-64-1	Acetone	PNEC soil, marine water	29,5 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: $\geq 0,4$ 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	light yellow

Safety characteristics

Odour	characteristic
Odour threshold	not determined
* pH at 20 °C:	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	55 °C
Flash point	-26 °C
Evaporation rate at 20°C	not determined
Burning time (s)	not applicable
Lower explosion limit at 20°C	0,7 Vol-%
Upper explosion limit at 20°C	13 Vol-%
Vapour pressure at 20°C	175 mbar
Density at 20°C	0,815 kg/l
Water solubility (g/L) at 20°C	not determined

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Partition coefficient: n-octanol/water	see section 12
Ignition temperature in °C	245 °C
Decomposition temperature	not determined
Viscosity	200 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.
Acetone
LD50: oral (Rat): = 5.800 mg/kg
LD50: dermal (Rabbit): > 15.800 mg/kg
LC50: inhalative (Rat): = 76 ppmV (4 h)
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
LD50: (Rat): > 5.000 mg/kg; (OECD 401)
LC50: (Rat): > 20 mg/l (4 h); (OECD 403)
LD50: dermal (Rabbit): > 2.000 mg/kg; (OECD 402)
cyclohexane
LD50: (Rat): > 5.000 mg/kg
LC50: inhalative (Rat): > 32,88 mg/l (4 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.

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* **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

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

* **STOT-single exposure**

May cause drowsiness or dizziness.

* **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

Toxic to aquatic life with long lasting effects.

Acute (short-term) fish toxicity

Acetone

LC50: (Oncorhynchus mykiss (Rainbow trout)): = 5.540 mg/l (96 h)

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

LC50: (Oncorhynchus mykiss (Rainbow trout)): = 11,4 mg/l (96 h)

cyclohexane

LC50: (Pimephales promelas (fathead minnow)): = 4,53 mg/l (96 h)

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

Acetone

ErC50: = 100 mg/l (96 h)

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

EL50: (Pseudokirchneriella subcapitata): = 30 < x > 100 mg/l (72 h)

cyclohexane

ErC50: (Desmodesmus subspicatus): > 4,425 mg/l (96 h)

Acute (short-term) toxicity to crustacea

Acetone

EC50 (Daphnia pulex (water flea)): = 8.800 mg/l (48 h)

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

EL50: (Daphnia magna (Big water flea)): = 3 mg/l (48 h)

cyclohexane

EC50 (Daphnia magna (Big water flea)): = 0,9 mg/l (48 h)

12.2 Persistence and degradability

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

Biodegradation; (Activated sludge) = 81 % (28 d)

Method: OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D

Readily biodegradable (according to OECD criteria).

cyclohexane

Biodegradation; (Activated sludge) = 77 % (28 d)

Method: OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D

Readily biodegradable (according to OECD criteria).

12.3 Bioaccumulative potential

cyclohexane

Bioconcentration factor (BCF), (Pimephales promelas (fathead minnow)) = 167

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- * Method: calculated
No indication of bioaccumulation potential.
Partition coefficient: n-octanol/water = -0,24

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**

- * 080409* - Waste adhesives and sealants containing organic solvents or other dangerous substances

- * **Other disposal recommendations**

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

SECTION 14: Transport information

14.1 UN number

UN 1133

14.2 UN proper shipping name

- * **Land transport (ADR/RID)**

KLEBSTOFFE (enthält Kohlenwasserstoffe, C6-C7, Isoalkane, Cyclene, <5% n-Hexan, Aceton)

- * **Sea transport (IMDG)**

Adhesives (contain Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane, Acetone, cyclohexane)

- * **Air transport (ICAO-TI / IATA-DGR)**

Adhesives (contain Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane, Acetone)

14.3 Transport hazard class(es)

Land transport (ADR/RID)	3
Sea transport (IMDG)	3
Air transport (ICAO-TI / IATA-DGR)	3

14.4 Packing group

Land transport (ADR/RID)	II
Sea transport (IMDG)	II
Air transport (ICAO-TI / IATA-DGR)	II

14.5 Environmental hazards

Land transport (ADR/RID)	ENVIRONMENTALLY HAZARDOUS
Sea transport (IMDG)	Marine pollutant / cyclohexane

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)**

tunnel restriction code: D/E

- * Special provisions SV 640C

- * **Sea transport (IMDG)**

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- * EmS-Code: F-E, S-D
- * **Air transport (ICAO-TI / IATA-DGR)**
- * not applicable

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): 503,148 g/l
- * **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]**
Hazard categories / Named dangerous substances
E2 Hazardous to the aquatic environment in Category Chronic 2
Quantity 1: 200t; Quantity 2: 500t
P5c Flammable liquids
Quantity 1: 5.000t; Quantity 2: 50.000t
- * **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
01-2119471330-49	Acetone
01-2119475514-35	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
01-2119463273-41-0000	cyclohexane

SECTION 16: Other information

- Relevant R-, H- and EUH-phrases (Number and full text)
- | | |
|------|---|
| H225 | Highly flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | 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. 2	On basis of test data.
Eye Irrit. 2	Calculation method.
STOT SE 3 Narcotic effects	Calculation method.
Skin Irrit. 2	Calculation method.
Aquatic Chronic 2	Calculation method.
 - * **Abbreviations and acronyms**
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>
 - * **Indication of changes**
* Data changed compared with the previous version