

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

530
Version 5.0

Thinner
Revision date 27-Jan-2021

Print date 03-Feb-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

Solvent / Diluent

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.
- * Asp. Tox. 1; Aspiration hazard; H304 May be fatal if swallowed and enters airways.
- * 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.
H304 May be fatal if swallowed and enters airways.
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.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER.
P331 Do NOT induce vomiting.
P337 + P313 If eye irritation persists: Get medical advice/attention.

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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.

Hazard components for labelling

Ethyl acetate
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

Mixture of organic solvents.

Hazardous ingredients

CAS No. EC No. INDEX No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	weight-%
141-78-6 205-500-4 607-022-00-5	Ethyl acetate 01-2119475103-46 Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	40,0 < 45,0
- 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	40,0 < 45,0
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	13,0 < 16,0

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

Remove affected person from the danger area and lay down.

Following inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Medical treatment necessary.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician. Rub greasy ointment into the skin.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. 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

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Symptoms

dizziness. Nausea. headache. Unconsciousness.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Transport affected person in lying position, in case of shortness of breath in half-sitting position. Where appropriate artificial ventilation. Subsequent observance for pneumonia and lung oedema.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂), alcohol resistant foam, Extinguishing powder, ABC-powder, spray mist, (water), Dry sand.

Unsuitable extinguishing media

Full water jet. Strong water jet.

5.2 Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air. Do not inhale explosion and combustion gases.

5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

5.4 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and skin. Use personal protection equipment. Remove all sources of ignition. Provide adequate ventilation. The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration. Do not breathe gas/fumes/vapour/spray.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Cover drains.

6.3 Methods and material for containment and cleaning up

* Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices 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.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. 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.

Further information

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Vapours/aerosols must be exhausted directly at the point of origin. Take precautionary measures against static discharge.

7.2 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. Store in a well-ventilated

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and dry room at temperatures between 10 °C and 30 °C. Ensure adequate ventilation of the storage area.

Hints on joint storage

Do not store together with: Oxidizing agent, Pyrophoric or self-heating substances. Store packaging and ignitable materials separately. 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.

7.3 Specific end use(s)

Solvents/Thinner.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No.	Substance name	Source	Long-term /short-term (Spitzenbegrenzung)
141-78-6	Ethyl acetate	WEL	734 / 1.468 (-) 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
141-78-6	Ethyl acetate	DNEL long-term inhalative (systemic)	1,468 mg/l
141-78-6	Ethyl acetate	DNEL acute inhalative (local)	1,468 mg/l
141-78-6	Ethyl acetate	DNEL long-term dermal (systemic)	63 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
141-78-6	Ethyl acetate	DNEL acute inhalative (systemic)	0,734 mg/l
141-78-6	Ethyl acetate	DNEL long-term inhalative (local)	0,734 mg/l
141-78-6	Ethyl acetate	DNEL long-term dermal (systemic)	37 mg/kg
141-78-6	Ethyl acetate	DNEL long-term inhalative (systemic)	0,037 mg/l
141-78-6	Ethyl acetate	DNEL long-term oral (repeated)	4,5 mg/kg
141-78-6	Ethyl acetate	DNEL acute inhalative (local)	0,367 mg/l

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Melting point/freezing point	-35 °C
Initial boiling point and boiling range	65 - 95 °C
Flash point	-18 °C
Evaporation rate at 20°C	not determined
Burning time (s)	not applicable
Lower explosion limit at 20°C	1 g/cm ³
Upper explosion limit at 20°C	11,5 g/cm ³
Vapour pressure at 20°C	175 mbar
Density at 20°C	0,781 kg/l
Water solubility (g/L) at 20°C	not determined
Partition coefficient: n-octanol/water	see section 12
Ignition temperature in °C	200 °C
Decomposition temperature	not determined
Viscosity	5,53 mPas
Explosive properties	not relevant
Oxidising properties	not relevant

9.2 Other information

not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2 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).

10.3 Possibility of hazardous reactions

Gases / vapours, highly flammable. Vapours can form explosive mixtures with air.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Acid, concentrated, Oxidising agent, strong.

10.6 Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

Ethyl acetate

LD50: oral (Rat): > 5.620 mg/kg

LD50: dermal (Rabbit): > 18.000 mg/kg

LC50: inhalative (Rat): = 56 mg/l (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)

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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.

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

May be fatal if swallowed and enters airways.

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

Ethyl acetate

LC50: (Oncorhynchus mykiss (Rainbow trout)): = 230 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

Ethyl acetate

LC50: (Desmodesmus subspicatus): = 5.600 mg/l (48 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

Ethyl acetate

EC50 (Daphnia magna (Big water flea)): = 165 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

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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
Method: calculated
No indication of bioaccumulation potential.
Partition coefficient: n-octanol/water = 0,68

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

* 070704* - other organic solvents, washing liquids and mother liquors

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 1993

14.2 UN proper shipping name

Land transport (ADR/RID)

ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G. (enthält Ethylacetat, Kohlenwasserstoffe, C6-C7, Isoalkane, Cyclene, <5% n-Hexan)

Sea transport (IMDG)

Flammable liquid, n.o.s. (contain Ethyl acetate, Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane, cyclohexane)

Air transport (ICAO-TI / IATA-DGR)

Flammable liquid, n.o.s. (contain Ethyl acetate, Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane)

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
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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

Sea transport (IMDG)

* EmS-Code: F-E, S-E

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): 780,9 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
01-2119475103-46	Ethyl acetate
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.
Asp. Tox. 1	Calculation method.
Eye Irrit. 2	Calculation method.
STOT SE 3 Narcotic effects	Calculation method.

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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