



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

521  
Version 5.4

Reinigungs- und Lösungsmittel - acetone  
Revision date 24-Jan-2022

Print date 24-Jan-2022

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-%
* 67-64-1 200-662-2 606-001-00-8	<b>acetone; propan-2-one; propanone</b> 01-2119471330-49 Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066 Substance with a common (EC) occupational exposure limit value.	75,0 < 100,0
* 141-78-6 205-500-4 607-022-00-5	<b>ethyl acetate</b> 01-2119475103-46 Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066 Substance with a common (EC) occupational exposure limit value.	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**

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.

\* **Following 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**

**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 (CO<sub>2</sub>), alcohol resistant foam, Extinguishing powder, ABC-powder, spray mist, (water), Dry sand.

**Unsuitable extinguishing media**

Full water jet. Strong water jet.

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

521  
Version 5.4

Reinigungs- und Lösungsmittel - acetone  
Revision date 24-Jan-2022

Print date 24-Jan-2022

**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 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**

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

521  
Version 5.4

Reinigungs- und Lösungsmittel - acetone  
Revision date 24-Jan-2022

Print date 24-Jan-2022

	CAS No.	Substance name	Source	Long-term /short-term (Spitzenbegrenzung)
*	67-64-1	acetone; propan-2-one; propanone	WEL	1.210 / 3.620 ( - ) mg/m <sup>3</sup>
*	141-78-6	ethyl acetate	WEL	734 / 1.468 ( - ) mg/m <sup>3</sup>

**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; propan-2-one; propanone	DNEL acute inhalative (systemic)	2.420 mg/L
*	67-64-1	acetone; propan-2-one; propanone	DNEL long-term inhalative (systemic)	1.210 mg/L
*	67-64-1	acetone; propan-2-one; propanone	DNEL long-term dermal (systemic)	186 mg/kg
*	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

**DNEL Consumer**

	CAS No.	Substance name	DNEL type	DNEL value
*	67-64-1	acetone; propan-2-one; propanone	DNEL long-term dermal (systemic)	62 mg/kg
*	67-64-1	acetone; propan-2-one; propanone	DNEL long-term inhalative (systemic)	200 mg/L
*	67-64-1	acetone; propan-2-one; propanone	DNEL long-term oral (repeated)	62 mg/kg
*	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

**PNEC**

	CAS No.	Substance name	PNEC type	PNEC Value
*	67-64-1	acetone; propan-2-one; propanone	PNEC aquatic, freshwater	10,6 mg/L
*	67-64-1	acetone; propan-2-one; propanone	PNEC aquatic, marine water	1,06 mg/L
*	67-64-1	acetone; propan-2-one; propanone	PNEC sediment, freshwater	30,4 mg/L
*	67-64-1	acetone; propan-2-one; propanone	PNEC sediment, marine water	3,04 mg/L
*	67-64-1	acetone; propan-2-one; propanone	PNEC soil, marine water	29,5 mg/L

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

521

Reinigungs- und Lösungsmittel - acetone

Version 5.4

Revision date 24-Jan-2022

Print date 24-Jan-2022

*	141-78-6	ethyl acetate	PNEC aquatic, freshwater	0,26 mg/L
*	141-78-6	ethyl acetate	PNEC aquatic, marine water	0,026 mg/L
*	141-78-6	ethyl acetate	PNEC sediment, freshwater	0,34 mg/kg
*	141-78-6	ethyl acetate	PNEC sediment, marine water	0,034 mg/kg
*	141-78-6	ethyl acetate	PNEC soil, freshwater	0,22 mg/kg

## 8.2 Exposure controls

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

### Personal protection equipment

#### **Respiratory protection**

- \* If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Combination filtering device. Use the following filter types for cleaning waste gases:

#### **Hand protection**

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material:  $\geq 0,4$  mm

- \* Breakthrough time:  $\geq 480$  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.

#### **Eye/face protection**

Wear closely fitting protective glasses in case of splashes.

#### **Body protection**

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

Wear anti-static footwear and clothing

### 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.

## 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 at 20 °C:	not determined
Melting point/freezing point	-95 °C
Initial boiling point and boiling range	56 °C
Flash point	-20 °C
Evaporation rate at 20°C	not determined
* Burning time	not relevant
Lower explosion limit at 20°C	2,5 Vol-%
Upper explosion limit at 20°C	14,3 Vol-%
Vapour pressure at 20°C	246 mbar
Density at 20°C	0,801 kg/l
* Water solubility at 20°C	not determined
Partition coefficient: n-octanol/water	see section 12

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

521	Reinigungs- und Lösungsmittel - acetone	
Version 5.4	Revision date 24-Jan-2022	Print date 24-Jan-2022

Ignition temperature in °C	535 °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.

\* **acetone; propan-2-one; propanone**

LD50: oral (Rat): = 5.800 mg/kg

LD50: dermal (Rabbit): > 15.800 mg/kg

LC50: inhalative (Rat): = 76 ppmV (4 h)

\* **ethyl acetate**

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

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

\* **LC50: inhalative (Rat): = 56 mg/L (4 h)**

**Skin corrosion/irritation**

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

**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**

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

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

521  
Version 5.4

Reinigungs- und Lösungsmittel - acetone  
Revision date 24-Jan-2022

Print date 24-Jan-2022

**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, Dizziness, 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**

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

**Acute (short-term) fish toxicity**

- \* **acetone; propan-2-one; propanone**  
LC50: (Oncorhynchus mykiss (Rainbow trout)): = 5.540 mg/L (96 h)

- \* **ethyl acetate**  
LC50: (Oncorhynchus mykiss (Rainbow trout)): = 230 mg/L (96 h)

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

- \* **acetone; propan-2-one; propanone**  
ErC50: = 100 mg/L (96 h)
- \* **ethyl acetate**  
LC50: (Desmodesmus subspicatus): = 5.600 mg/L (48 h)
- \* **Acute (short-term) toxicity to crustacea**  
**acetone; propan-2-one; propanone**  
EC50 (Daphnia pulex (water flea)): = 8.800 mg/L (48 h)

- \* **ethyl acetate**  
EC50 (Daphnia magna (Big water flea)): = 165 mg/L (48 h)

**12.2 Persistence and degradability**

No information available.

**12.3 Bioaccumulative potential**

Partition coefficient: n-octanol/water = -0,24

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**



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

Print date 24-Jan-2022

**Land transport (ADR/RID)**

\* ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G. (enthält 2- Propanon; Aceton; Propanon, Ethylacetat)

\* Flammable liquid, n.o.s. (contain acetone; propan-2-one; propanone, ethyl acetate)

\* Flammable liquid, n.o.s. (contain acetone; propan-2-one; propanone, ethyl acetate)

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

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

Land transport (ADR/RID)	not applicable
Sea transport (IMDG)	not applicable

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

No transport as bulk according to IBC Code.

### 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

### 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 [Industrial Emissions Directive]

\* VOC-waarde 800,8 g/l

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

### Hazard categories / Named dangerous substances

\* 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: propan-2-one: propanone

\* 01-2119475103-46 ethyl acetate

## Page 8/9



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

521  
Version 5.4

Reinigungs- und Lösungsmittel - acetone  
Revision date 24-Jan-2022

Print date 24-Jan-2022

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

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

**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.

**Abbreviations and acronyms**

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

**Indication of changes**

\* Data changed compared with the previous version