

Safety Data Sheet

according to UK REACH Regulation

Adhesive Remover

Revision date: 19.11.2025

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

1.1. Product identifier

Adhesive Remover

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

Use of the substance/mixture

Detergent according to Regulation (EC) No 648/2004.

1.3. Details of the supplier of the safety data sheet

Company name:	Kettenbach GmbH & Co. KG	
Street:	Im Heerfeld 7	
Place:	D-35713 Eschenburg	
Telephone:	+ 49(0) 2774/705-0	Telefax: +49 (0)2774/705-66
E-mail:	info@kettenbach.com	
Internet:	www.kettenbach.com	
Responsible Department:	R&D	

Further Information

Auxiliary for dental technology for removing silicone-based materials.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 3; H226

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Signal word: Warning

Pictograms:



Hazard statements

H226 Flammable liquid and vapour.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P280	Wear protective gloves and eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/container in accordance with local/regional/national international regulations.

SECTION 3: Composition/information on ingredients

3.1. Substances

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
105-58-8	Diethyl carbonate			100 %
	203-311-1		01-2119943044-45-	
	Flam. Liq. 3; H226			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
105-58-8	203-311-1	Diethyl carbonate	100 %
	inhalation: LC50 = 19,5 mg/l (vapours); dermal: Data lacking; oral: LD50 = 4876 mg/kg		

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

IF INHALED: Call a doctor if you feel unwell.
Provide fresh air.

After contact with skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/or shower.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.

After ingestion

IF SWALLOWED: Call a doctor if you feel unwell.
Rinse mouth immediately and drink 1 glass of water.

4.2. Most important symptoms and effects, both acute and delayed

Respiratory complaints.
Dizziness.
Nausea.

4.3. Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

All standard extinguishing agents are suitable..

Unsuitable extinguishing media

None known.

5.2. Special hazards arising from the substance or mixture

Vapours are heavier than air, spread along floors and form explosive mixtures with air.
In case of fire may be liberated: Carbon dioxide, Carbon monoxide.

5.3. Advice for firefighters

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

Additional information

Move undamaged containers from immediate hazard area if it can be done safely.
Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Personal protection equipment: see section 8

For non-emergency personnel

Do not breathe mist/vapours/spray.
Provide adequate ventilation.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Explosion risk.

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

SECTION 12: Ecological information
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas.

Advice on protection against fire and explosion

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
Take precautionary measures against static discharges.

Advice on general occupational hygiene

Immediately remove any contaminated clothing, shoes or stockings.
Wash hands before breaks and after work.

Further information on handling

Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in the original container only. Keep container tightly closed and store in a cool place.
Keep away from sources of ignition - No smoking.
Keep away from heat.

Further information on storage conditions

Moisture-sensitive.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2, no other specific uses are foreseen.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

Contains no substances with occupational exposure limits.

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8.2. Exposure controls



Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses.

Hand protection

Protective gloves..

Skin protection

Protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Thermal hazards

Heating causes rise in pressure with risk of bursting.

Environmental exposure controls

Do not allow to enter into surface water or drains. Explosion risk.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	colourless
Odour:	like ether; mild and nonresidual.
Odour threshold:	No data available

	Test method
Melting point/freezing point:	-43 °C
Boiling point or initial boiling point and boiling range:	126 °C
Flammability:	Flammable ISO 10156
Lower explosion limits:	1,4 vol. %
Upper explosion limits:	11,0 vol. %
Flash point:	25 °C
Auto-ignition temperature:	445 °C
Decomposition temperature:	No data available
pH-Value:	No data available
Viscosity / kinematic: (at 20 °C)	0,816 mm ² /s OECD 114
Water solubility: (at 20 °C)	18,8 g/L
Solubility in other solvents	No data available
Dissolution rate:	No data available
Partition coefficient n-octanol/water:	1,21
Dispersion stability:	No data available
Vapour pressure: (at 23.8 °C)	13 hPa

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Vapour pressure: 79 hPa
 (at 37.8 °C)
 Density: 0,975 g/cm³
 Bulk density: Not applicable.
 Particle characteristics: (Liquid) Not applicable.

9.2. Other information

Information with regard to physical hazard classes

Explosive properties
 Formation of potentially explosive vapor/air mixtures is possible.
 Oxidizing properties
 No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapor/air-mixtures are explosive at intense warming.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Exothermic reaction with:
 Oxidising agent, strong
 Reducing agent, strong

10.4. Conditions to avoid

Protect from moisture.
 Heating.

10.5. Incompatible materials

various plastics

10.6. Hazardous decomposition products

Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Based on available data, the classification criteria are not met.
 LD50 Oral (Rat, male): >4.876 mg/kg Remarks: (ECHA)
 Inhalation: No data available
 Dermal: No data available

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
105-58-8	Diethyl carbonate				
	oral	LD50 4876 mg/kg	Rat	ECHA	
	dermal	Data lacking			
	inhalation (4 h) vapour	LC50 19,5 mg/l	Rat	ECHA	

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.
 Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.
 Skin (Rabbit): Result: No skin irritation (24 h) Remarks: (ECHA)

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Sensitising effects

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

Serious eye damage/irritation (rabbit): Result: No eye irritation (8 days) Remarks: (ECHA), Respiratory or skin sensitization: Local lymph node assay (LLNA): Mouse: Result: Not a skin sensitizer (OECD Test Guideline 429).

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

Germ cell mutagenicity: Type of test: Ames test: Test system: Escherichia coli/Salmonella typhimurium:

Metabolic activation: with and without metabolic activation: Method: OECD Test Guideline 471: Result: negative

| Type of test: Micronucleus test: Test system: Human lymphocytes: Metabolic activation: with and without

metabolic activation: Method: OECD Test Guideline 487: Result: positive | Type of test: Micronucleus test:

Species: Mouse: Cell type: Bone marrow: Route of administration: Intravenous: Method: OECD Test Guideline

474: Result: negative

STOT-single exposure

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

No data available

STOT-repeated exposure

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

No data available

Aspiration hazard

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

No data available

11.2. Information on other hazards

Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other information

Repeated dose toxicity (rat; male and female; oral; 90 - 91 days): NOAEL (No observed adverse effect level): 1,000 mg/kg

SECTION 12: Ecological information

12.1. Toxicity

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

Toxicity to algae: static test ErC50 - Desmodesmus subspicatus (green algae): >100 mg/l - 72 h (OECD Test Guideline 201)

Toxicity to bacteria: static test NOEC - Desmodesmus subspicatus (green algae): >=100 mg/l - 72 h (OECD Test Guideline 201)

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
105-58-8	Diethyl carbonate					
	Acute algae toxicity	ErC50	100 mg/l	72 h	Desmodesmus subspicatus	OECD 201
	Algae toxicity	NOEC	100 mg/l	3 d	Desmodesmus subspicatus	OECD 201

12.2. Persistence and degradability

Biodegradability: Result: 75 % - Readily biodegradable. (Regulation (EC) No. 440/2008, Annex, C.4-D)

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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
105-58-8	Diethyl carbonate			
	Regulation (EC) Nr. 440/2008, Appendix, C.4-D	75	27	
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
105-58-8	Diethyl carbonate	1,21

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Hazardous waste according to Directive 2008/98/EC (waste framework directive).

The waste code has to be identified in agreement with the disposal company or the competent authority.

Dispose of contents/container in accordance with local/regional/national international regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>	UN 2366
<u>14.2. UN proper shipping name:</u>	DIETHYL CARBONATE
<u>14.3. Transport hazard class(es):</u>	3
<u>14.4. Packing group:</u>	III
Hazard label:	3



Classification code:	F1
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	30
Tunnel restriction code:	D/E

Inland waterways transport (ADN)

<u>14.1. UN number or ID number:</u>	UN 2366
<u>14.2. UN proper shipping name:</u>	DIETHYL CARBONATE

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14.3. Transport hazard class(es): 3

14.4. Packing group: III

Hazard label: 3



Classification code: F1

Limited quantity: 5 L

Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 2366

14.2. UN proper shipping name: DIETHYL CARBONATE

14.3. Transport hazard class(es): 3

14.4. Packing group: III

Hazard label: 3



Special Provisions: -

Limited quantity: 5 L

Excepted quantity: E1

EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 2366

14.2. UN proper shipping name: DIETHYL CARBONATE

14.3. Transport hazard class(es): 3

14.4. Packing group: III

Hazard label: 3



Limited quantity Passenger: 10 L

Passenger LQ: Y344

Excepted quantity: E1

IATA-packing instructions - Passenger: 355

IATA-max. quantity - Passenger: 60 L

IATA-packing instructions - Cargo: 366

IATA-max. quantity - Cargo: 220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No special measures are necessary.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

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Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

Information according to Directive
2012/18/EU (SEVESO III):

P5c FLAMMABLE LIQUIDS

National regulatory information

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s):

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

Date of preparation / Revised on: 19/11/2025

Version number: 1,01

Replaces version number: 1,00 (21/10/2024)

Abbreviations and acronyms

ATE: Acute toxicity estimate. CAS: Chemical abstracts service. CFR: Code of Federal Regulations. DNEL: Derived No Effect Level EC50: 50% of maximal effective concentration. FDA: Food and Drug Administration. GHS: Globally Harmonised System. IATA: International air transport association. ICAO: Technical instructions for the safe transport of dangerous goods by air. IMDG: International maritime dangerous goods. LC50: Lethal concentration to 50 % of a test population. LD50: Lethal dose to 50% of a test population (median lethal dose). NOAEL: No Observed Adverse Effect Level. PBT: Persistent, bioaccumulative and toxic substance. PEL: Permissible Exposure Limit. PNEC: Predicted No Effect Concentration. REL: Recommended exposure limit. STOT RE: Specific Target Organ Toxicity – Single Exposure. STOT SE: Specific Target Organ Toxicity – Repeated Exposure. TWA: 8-hour Time Weighted Averages (long-term exposure limit). US OSHA: US Occupational Safety and Health Administration. vPvB: Very persistent and very bioaccumulative.

Key literature references and sources for data

The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.

Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.