



Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 20.07.2026

Version number 1.12 (replaces version 1.11)

Revision: 10.06.2026

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

· 1.1 Product identifier

· **Trade name:** *Apple Conc. CO2 Extracted (MCI Ref. 2026.1035)*

· **Chemical Identification:** *Apple, Malus sylvestris, ext.*

· **Article number:** 2006#0026

· **CAS Number:**

85251-63-4

· **EC number:**

286-475-7

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

No further relevant information available.

· **Application of the substance / the mixture** *Flavours*

· 1.3 Details of the supplier of the safety data sheet

· **Manufacturer/Supplier:**

MCI Miritz Citrus Intercontinental GmbH & Co. KG

Citrusstr. 3

D-37318 Kirchgandern

Tel: 0049-36081-621-0

e-mail: info@miritz.de

MCI Miritz Citrus GmbH & Co. KG

Citrusstr. 3

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Tel: 0049-36081-621-0

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MCI Miritz Citrus Ingredients LLC

28 Railroad Avenue

Warwick, NY 10990

USA

· **Further information obtainable from:**

Department Regulatory Affairs

Tel.: 0049-36081-621-0

info@miritz.de

· **1.4 Emergency telephone number:**

MCI Miritz Germany: 0049-(0)-170-9131244

Chemtrec USA: 001-1-800-424-9300

Emergency Number China: 0086-532-8388-9090

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· **Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· 2.2 Label elements

· **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

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· **Hazard pictograms**

GHS02 GHS05 GHS07

· **Signal word** *Danger*· **Hazard-determining components of labelling:**

Hexan-1-ol
2-Methylbutanol
Hexen-2-al
Butan-1-ol
trans-2-Hexenol
Hexanal

· **Hazard statements**

H225 Highly flammable liquid and vapour.
H302+H312 Harmful if swallowed or in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful 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.
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P321 Specific treatment (see on this label).
P330 Rinse mouth.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards** *Can cause dry skin.*· **Results of PBT and vPvB assessment**· **PBT:** Not applicable· **vPvB:** Not applicable

SECTION 3: Composition/information on ingredients

· **3.1 Substances**· **CAS No. / Description**85251-63-4 Apple, *Malus sylvestris*, ext.· **Identification number(s)**

EINECS CAS 85251-63-4

EINECS 286-475-7

Apple, *Malus sylvestris*, ext.· **EC number:** 286-475-7· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

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Dangerous components:

CAS: 64-17-5 EINECS: 200-578-6	Ethanol Flam. Liq. 2, H225; Eye Irrit. 2, H319	25-50%
CAS: 111-27-3 EINECS: 203-852-3	Hexan-1-ol Flam. Liq. 3, H226; Acute Tox. 4, H302; Acute Tox. 4, H312; Eye Irrit. 2, H319 ATE: LD50 oral: 500 mg/kg	10-25%
CAS: 6728-26-3 EINECS: 229-778-1	Hexen-2-al Flam. Liq. 3, H226; Acute Tox. 3, H311; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317 ATE: LD50 oral: 850 mg/kg	10-25%
CAS: 137-32-6 EINECS: 205-289-9	2-Methylbutanol Flam. Liq. 3, H226; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H335 ATE: LD50 oral: 4,172 mg/kg	2.5-10%
CAS: 71-36-3 EINECS: 200-751-6	Butan-1-ol Flam. Liq. 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336 ATE: LD50 oral: 500 mg/kg	2.5-10%
CAS: 123-86-4 EINECS: 204-658-1	n-Butyl acetate Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	2.5-10%
CAS: 928-95-0 EINECS: 213-191-2	trans-2-Hexenol Flam. Liq. 3, H226; Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1B, H317 ATE: LD50 oral: 3,500 mg/kg	2.5-10%
CAS: 66-25-1 EINECS: 200-624-5	Hexanal Flam. Liq. 3, H226; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	2.5-10%
CAS: 141-78-6 EINECS: 205-500-4	Ethyl acetate Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336, EUH066	1-2.5%
CAS: 624-41-9 EINECS: 210-843-8	2-methylbutyl acetat Flam. Liq. 3, H226, EUH066	1-2.5%
CAS: 67-56-1 EINECS: 200-659-6	methanol Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370 Specific concentration limits: STOT SE 1; H370: $C \geq 10 \%$ STOT SE 2; H371: $3 \% \leq C < 10 \%$	$\leq 1\%$
CAS: 71-23-8 EINECS: 200-746-9	Propan-1-ol Flam. Liq. 2, H225; Eye Dam. 1, H318; STOT SE 3, H336 ATE: LD50 oral: 2,825 mg/kg	$\leq 1\%$
CAS: 100-52-7 EINECS: 202-860-4	Benzaldehyde Repr. 2, H361d; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335 ATE: LD50 oral: 1,430 mg/kg LD50 inhalative: 1.5 mg/kg	$\leq 1\%$
CAS: 105-54-4 EINECS: 203-306-4	Ethyl butyrate Flam. Liq. 3, H226; Eye Irrit. 2, H319	$\leq 1\%$
CAS: 142-92-7 EINECS: 205-572-7	Hexyl acetate Flam. Liq. 3, H226	$\leq 1\%$
CAS: 928-96-1 EINECS: 213-192-8	cis-3-hexenol Flam. Liq. 3, H226; Eye Irrit. 2, H319 ATE: LD50 oral: 4,615 mg/kg	$\leq 1\%$

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SECTION 4: First aid measures**4.1 Description of first aid measures****General information:***If health disorder happens, call for medical help immediately.**Immediately remove any clothing soiled by the product.**Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.***After inhalation:***Supply fresh air and to be sure call for a doctor.**In case of unconsciousness place patient stably in side position for transportation.***After skin contact:** *Immediately wash with water and soap and rinse thoroughly.***After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.***After swallowing:** *Call for a doctor immediately.***4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.***4.3 Indication of any immediate medical attention and special treatment needed***No further relevant information available.***SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:** *CO₂, alcohol resistant foam, powder, water spray.***For safety reasons unsuitable extinguishing agents:** *Water with full jet***5.2 Special hazards arising from the substance or mixture***In case of fire, the following can be released:**Carbon monoxide (CO)**Carbon dioxide (CO₂)**Smoke and soot**Do not use water with full jet to prevent fire spreading.***5.3 Advice for firefighters****Protective equipment:** *Wear self-contained respiratory protective device.***Additional information***Cool endangered receptacles with water spray.**Collect contaminated fire fighting water separately. It must not enter the sewage system.**Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.***SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures***Follow safety measures in chapter 7 and 8.**Wear protective equipment. Keep unprotected persons away.***6.2 Environmental precautions:***Do not allow to penetrate the ground/soil.**Do not allow product to reach sewage system or any water course.**Inform respective authorities in case of seepage into water course or sewage system.**Do not allow to enter sewers/ surface or ground water.***6.3 Methods and material for containment and cleaning up:***Wipe up little amounts with absorbent material like cloth or pulp.**Absorb with incombustible liquid-binding material (sand, diatomite, universal binders).**Use neutralising agent.**Dispose of contaminated material as waste according to item 13.**Ensure adequate ventilation.***6.4 Reference to other sections***See Section 7 for information on safe handling.**See Section 8 for information on personal protection equipment.*

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See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

personal protection equipment see point 8.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

· Information about fire - and explosion protection:

Fumes can combine with air to form an explosive mixture.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Store only in unopened original receptacles.
Provide solvent resistant, sealed floor.
Store in a cool location.

· Information about storage in one common storage facility: Store away from oxidising agents.

· Further information about storage conditions:

Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

· Storage class: 3

· Classification according to Betriebssicherheitsverordnung (BetrSichV) Flammable liquid

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

64-17-5 Ethanol

AGW (Germany) Long-term value: 380 mg/m³, 200 ppm
4(II);DFG, Y

111-27-3 Hexan-1-ol

AGW (Germany) Long-term value: 105 mg/m³, 25 ppm
1(I);AGS, Y, 11

137-32-6 2-Methylbutanol

AGW (Germany) Long-term value: 73 mg/m³, 20 ppm
2 (I);DFG, Y

71-36-3 Butan-1-ol

AGW (Germany) Long-term value: 310 mg/m³, 100 ppm
1(I);DFG, Y

123-86-4 n-Butyl acetate

AGW (Germany) Long-term value: 300 mg/m³, 62 ppm
2(I);AGS, Y

141-78-6 Ethyl acetate

AGW (Germany) Long-term value: 730 mg/m³, 200 ppm
2(I);DFG, EU, Y

624-41-9 2-methylbutyl acetat

AGW (Germany) Long-term value: 270 mg/m³, 50 ppm
1(I);DFG, Y

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67-56-1 methanol	
AGW (Germany)	Long-term value: 130 mg/m ³ , 100 ppm 2(II);DFG, EU, H, Y
100-52-7 Benzaldehyde	
MAK (Germany)	vgl. Abschn. IIb
Ingredients with biological limit values:	
71-36-3 Butan-1-ol	
BGW (Germany)	2 mg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: vor nachfolgender Schicht Parameter: Butan-1-ol (1-Butanol) (nach Hydrolyse)
	10 mg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Butan-1-ol (1-Butanol) (nach Hydrolyse)
67-56-1 methanol	
BGW (Germany)	15 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende, bei Langzeitexposition: am Schichtende nach mehreren vorangegangenen Schichten Parameter: Methanol

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Use personal protective equipment depending on concentration and amount of hazardous substance.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

Suitable respiratory protection: filter class A2 (brown colour).

Use the rules for application of respiratory protection systems.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Hand protection**

Preventive skin protection by use of skin-protecting agents is recommended.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

> 480 minutes at layer thickness of 0,425 millimeter (Sol-Vex 37-695/Ansell).

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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- **For the permanent contact gloves made of the following materials are suitable:**
Nitrile rubber, NBR
E.g. following product: Sol-Vex (37-695) from Ansell.
- **As protection from splashes gloves made of the following materials are suitable:** Nitrile rubber, NBR
- **Eye/face protection**



Tightly sealed goggles according to EN 166:2001

- **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state	Liquid
· Colour:	Colorless - yellow
· Odour:	Characteristic
· Odour threshold:	Not determined
· Melting point/freezing point:	Undetermined
· Boiling point or initial boiling point and boiling range	>35 °C
· Flammability	Highly flammable.
· Lower and upper explosion limit	
· Lower:	1.2 Vol %
· Upper:	15 Vol %
· Flash point:	19 °C (ASTM D7094)
· Auto-ignition temperature:	290 °C
· Decomposition temperature:	Not determined
· pH	Not determined
· Viscosity:	
· Kinematic viscosity	Not determined
· Dynamic:	Not determined
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined
· Vapour pressure at 20 °C:	59 hPa
· Density and/or relative density	
· Density at 20 °C:	0.842 g/cm ³
· Relative density	Not determined
· Vapour density	Not determined

· 9.2 Other information

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting; but in case of unpropitious storing conditions (air admission, heat accumulation) selfignition is possible for moistened solids (e.g. cloth, pulp, filter panels, binder).
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Change in condition	
· Evaporation rate	Not determined

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· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Highly flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
Heating causes vaporisation and formation of ignitable atmosphere is possible.
- **10.3 Possibility of hazardous reactions**
Formation of explosive gas mixture with air possible.
Reacts violently with oxidising agents.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products expected by intended use.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Harmful if swallowed or in contact with skin.

· LD/LC50 values relevant for classification:**64-17-5 Ethanol**

Oral	LD50	7,060 mg/kg (rat)
Inhalative	LC50/4 h	20,000 mg/l (rat)

111-27-3 Hexan-1-ol

Oral	LD50	500 mg/kg (ATE) 720 mg/kg (rat)
Inhalative	LD50	3,100 mg/kg (rabbit)

6728-26-3 Hexen-2-ol

Oral	LD50	850 mg/kg (ATE) 780 mg/kg (rat)
Inhalative	LD50	600 mg/kg (rabbit)

137-32-6 2-Methylbutanol

Oral	LD50	4,172 mg/kg (ATE)
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Inhalative	LD50	1,000 mg/kg (rat) 3,540 mg/kg (rabbit)
71-36-3 Butan-1-ol		
Oral	LD50	500 mg/kg (ATE) 790 mg/kg (rat)
Inhalative	LD50	3,400 mg/kg (rabbit)
	LC50/4 h	8,000 mg/l (rat)
123-86-4 n-Butyl acetate		
Oral	LD50	13,100 mg/kg (rat)
Inhalative	LD50	>5,000 mg/kg (rabbit)
	LC50/4 h	>21 mg/l (rat)
928-95-0 trans-2-Hexenol		
Oral	LD50	3,500 mg/kg (ATE) 3,500 mg/kg (rat)
Inhalative	LD50	4,500 mg/kg (rabbit)
66-25-1 Hexanal		
Oral	LD50	4,890 mg/kg (rat)
141-78-6 Ethyl acetate		
Oral	LD50	5,620 mg/kg (rabbit)
Inhalative	LC50/4 h	1,600 mg/l (rat)
71-23-8 Propan-1-ol		
Oral	LD50	2,825 mg/kg (ATE) 1,870 mg/kg (rat)
Inhalative	LD50	5,040 mg/kg (rabbit)
100-52-7 Benzaldehyde		
Oral	LD50	1,430 mg/kg (ATE) 1,300 mg/kg (rat)
105-54-4 Ethyl butyrate		
Oral	LD50	13,000 mg/kg (rat)
142-92-7 Hexyl acetate		
Oral	LD50	42,000 mg/kg (rat)
Inhalative	LD50	>5,000 mg/kg (rabbit)
928-96-1 cis-3-hexenol		
Oral	LD50	4,615 mg/kg (ATE) 4,700 mg/kg (rat)
Inhalative	LD50	>5,000 mg/kg (rabbit)

· **Primary irritant effect:**

· **Skin corrosion/irritation** Causes skin irritation.

· **Serious eye damage/irritation** Causes serious eye damage.

· **Sensitisation:** May cause an allergic skin reaction.

· **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.

· **STOT-single exposure** Based on available data, the classification criteria are not met.

· **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.

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· 11.2 Information on other hazards**· Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information**· 12.1 Toxicity****· Aquatic toxicity:** No further relevant information available.**· 12.2 Persistence and degradability** No further relevant information available.**· 12.3 Bioaccumulative potential** No further relevant information available.**· 12.4 Mobility in soil** No further relevant information available.**· 12.5 Results of PBT and vPvB assessment****· PBT:** Not applicable**· vPvB:** Not applicable**· 12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects**· Remark:** Quantitative data according to the ecological effects are not available.**· Additional ecological information:****· General notes:**

Danger to drinking water if even small quantities leak into the ground.

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Harmful to aquatic organisms

SECTION 13: Disposal considerations**· 13.1 Waste treatment methods****· Recommendation**

Recycling is preferred to disposal or burning.

Disposal must be made according to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue 02 03 03: wastes from solvent extraction**· Uncleaned packaging:****· Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information**· 14.1 UN number or ID number****· ADR, IMDG, IATA**

UN1197

· 14.2 UN proper shipping name**· ADR**

1197 EXTRACTS, LIQUID, special provision 640D

· IMDG

EXTRACTS, LIQUID

· IATA

Extracts, liquid

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· 14.3 Transport hazard class(es)

· ADR



· Class 3 (F1) Flammable liquids.
 · Label 3

· IMDG, IATA



· Class 3 Flammable liquids.
 · Label 3

· 14.4 Packing group

· ADR, IMDG, IATA II

· 14.5 Environmental hazards:

· Marine pollutant: No

· 14.6 Special precautions for user

· Hazard identification number (Kemler code): Warning: Flammable liquids.
 33
 · EMS Number: F-E,S-D
 · Stowage Category B

· 14.7 Maritime transport in bulk according to IMO instruments

Not applicable

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 5L
 · Excepted quantities (EQ) Code: E2
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 500 ml
 · Transport category 2
 · Tunnel restriction code D/E

· IMDG

· Limited quantities (LQ) 5L
 · Excepted quantities (EQ) Code: E2
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

UN 1197 EXTRACTS, LIQUID, 3, II

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I Substance is not listed.

· Seveso category P5c FLAMMABLE LIQUIDS

· Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t

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according to Regulation (EC) No 1907/2006, Article 31

Printing date 20.07.2026

Version number 1.12 (replaces version 1.11)

Revision: 10.06.2026

Trade name: Apple Conc. CO2 Extracted (MCI Ref. 2026.1035)

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· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 69· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations:**· **Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

· **Breakdown regulations:**

Critical quantity values according to the regulations on accidents should be adhered to.

· **Technical instructions (air):**

Class	Share in %
I	≤1
NK	50-100

· **Waterhazard class:** Water hazard class 2 (Assessment by list): obviously hazardous to water.· **Other regulations, limitations and prohibitive regulations**

Comply with the rules and regulations of skin protection.

Comply with the rules and regulations of respiratory protection.

According to exposition (skin contact, inhalation) preventive medical checkup is necessary (GefStoffV/ ArbMedVV).

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

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- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child.
- H370 Causes damage to organs.
- H371 May cause damage to organs.
- H411 Toxic to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.
- **Recommended restriction of use** For industrial application only.

- **Department issuing SDS:** Regulatory Affairs

- **Contact:**

Department Regulatory Affairs

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- **Date of previous version:** 05.05.2026

- **Version number of previous version:** 1.11

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B

Repr. 2: Reproductive toxicity – Category 2

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- *** Data compared to the previous version altered.**

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