

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Trade name: ISO-C

Version: 9.0 from 15 Mai 2026

Replaces version 8.0 from 17 Juni 2025

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Section 1: Identification of the substance/ mixture and the company/ undertaking**1.1 Product identifier**

Trade name	ISO-C
UFI	P200-U0CW-600K-Q4NR
Synonym	Ethanol (60%) with anise oil

1.2 Relevant identified uses of the substance or mixture and uses advised against**Relevant identified uses of the substance or preparation:** Model isolation in dental laboratories**Uses advised against:** No information is available.**1.3 Details of the supplier providing the safety data sheet**

Manufacturer / Supplier Switzerland:

ISO-C GmbH

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1.4 Emergency telephone number

Switzerland: 145 Tox Info Suisse (24h / 7 days)

+41 44 251 51 51 (Tox -Zentrum)

Germany: +49 6131 19240 (Poison Control Centre, Mainz, 24-hour service)

Section 2: Hazards identification**2.1. Classification of the substance or mixture**

The product is classified as hazardous in accordance with the calculation method defined in Regulation (EC) No. 1272/2008 (CLP Regulation), as currently in force.

Flammable liquids, Category 2; H225

Eye irritation, Category 2; H319

2.2. Label elements

Labeling in accordance with Regulation (EC) No. 1272/2008 (CLP)

Pictograms



GHS02



GHS07

Signal word: Danger**Hazard component(s) for labeling:** Ethanol

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Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

Additional information

 EUH208 Contains *trans*-anethol. May produce an allergic reaction.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P243 Take action to prevent static discharges.

P235 + P403 Keep cool, store in a well-ventilated place.

P280 Wear protective gloves and eye protection.

P333+P313: If skin irritation or rash occurs: get medical advice.

2.3. Other hazards

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological Information: The 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.

Toxicological Information: The 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.

Section 3: Composition/ information on ingredients
3.1. Substances

The product is a mixture.

3.2 Preparation

Designation	CAS No.	EC No.	Concentration	Classification according to Regulation (EC) No 1272/2008
Ethanol	64-17-5	200-578-6	approx. 60% (w/w)	Flam. Liq. 2; H225 Eye Irrit. 2; H319 Concentration limit: >= 50 %: Eye Irrit. 2, H319
<i>trans</i> -Anethole	4180-23-8	224-052-0	< 1% (w/w)	Skin Sens. 1; H317 Muta. 2; H341 Carc. 2; H351 Aquatic Chronic 3; H412

SVHC

 This preparation does not contain any substances of very high concern (SVHC) in a concentration of $\geq 0.1\%$ in accordance with Regulation (EC) No 1907/2006, Article 57.

Additional information

For the full text of the H- and EUH-Statements mentioned in this Section, see Section 16.

Section 4: First aid measures
4.1. Description of first aid measures
After inhalation: Provide fresh air; consult a doctor if symptoms persist.

After skin contact: Wash off with plenty of soap and water. Remove contaminated clothing immediately. Seek medical advice if skin irritation occurs.

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- After eye contact:** Remove contact lenses. Immediately rinse the eye under running water for several minutes, keeping the eyelids open. If irritation persists, consult an ophthalmologist.
- If swallowed:** Rinse mouth and drink water (dilution effect). Seek medical attention if feeling unwell.

4.2. Most important acute and delayed symptoms and effects

If swallowed: nausea, vomiting, abdominal pain, liver damage

4.3 Indications for immediate medical attention or special treatment

Symptomatic treatment.

Section 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media:**Carbon dioxide (CO₂), foam, dry powder, water spray.**Unsuitable extinguishing media:**

Full water jet.

5.2. Special hazards arising from the substance or preparation

Fires may produce carbon dioxide and carbon monoxide. Avoid inhaling smoke and fumes.

5.3. Fire-fighting instructions

In the event of a fire involving large quantities in storage:

If it is safe to do so, remove products from the danger zone. Do not inhale vapours or smoke. Wear self-contained breathing apparatus and full protective clothing.

Cool the endangered product with water spray.

Collect contaminated firefighting water and dispose of it in accordance with regulatory requirements.

Section 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Liquid and vapours are highly flammable. Keep apart from sources of ignition.

Keep unprotected people away. Do not smoke!

In the event of a large-scale release:

Ensure adequate ventilation. Do not inhale vapours or aerosols.

Avoid contact with eyes and skin.

Emergency services:

Evacuate the affected area; warn people in the vicinity.

Protective equipment in accordance with EN 469 is recommended (see Section 8).

6.2. Environmental precautions

Do not let product enter drains/surface water/groundwater.

Notify the relevant authorities.

6.3. Methods and materials for containment and cleaning up

Ensure adequate ventilation.

Absorb spill using liquid-binding, non-flammable material (sand, diatomaceous earth, universal binder).

Dispose of in sealed containers in accordance with legal requirements.

Dispose of the collected material in accordance with regulations (see Section 13).

6.4. Reference to other sections

For information on safe handling, see Section 7.

For information on personal protective equipment, see Section 8.

For information on disposal, see Section 13.

Section 7: Handling and storage

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7.1 Precautions for safe handling

Observe the usual precautions when handling chemicals.

Guidance on safe handling:

Ensure the room is well ventilated, including near the floor (vapours are heavier than air).

Do not inhale vapours/aerosols. Avoid contact with eyes and skin.

Open and handle containers with care.

Avoid spilling or spraying in enclosed spaces.

Limit the quantity stored at the workplace.

General protective and hygiene measures:

Keep away from food, drink and animal feed.

Remove soiled, saturated clothing immediately.

Do not eat, drink, smoke or use snuff whilst working.

Wash hands before breaks and at the end of the working day.

Fire and explosion safety instructions:

Vapours may form an explosive mixture with air.

Flammable mixtures may form in empty containers.

Keep away from sources of ignition – do not smoke.

Take measures to prevent electrostatic charging.

Protect from heat and direct sunlight.

Do not spray towards flames or onto hot surfaces.

Use explosion-proof equipment and non-sparking tools.

7.2. Conditions for safe storage, including any incompatibilities
Storage:

Observe explosion protection measures. Provide a drip tray.

Keep containers tightly closed and store in a cool, well-ventilated place.

Storage compatibility:

Store apart from strong oxidising agents.

Storage class

LK3 – Flammable liquids.

7.3. Specific end uses

For the relevant identified use as per Section 1.2, the protective measures for safe handling (Section 7.1) must be observed.

Section 8: Exposure controls/personal protection
8.1. Control parameters
Occupational exposure limits and/or biological limit values
Swiss limit values according to SUVA:

Designation	CAS No.	TLV (ppm)	TVL (mg/m ³)	STEL (ppm)	STEL (mg/m ³)
Ethanol	64-17-5	500	960	1'000	1'920
<i>trans</i> -anethol	4180-23-8	No data	No data	No data	No data

Limit values in Germany according to the MAK Commission's recommendation:

Designation	CAS No.	TLV (ppm)	TVL (mg/m ³)	STEL (ppm)	STEL (mg/m ³)
Ethanol	64-17-5	200	380	800	1'520
<i>trans</i> -anethol	4180-23-8	No data	No data	No data	No data

8.2. Exposure control and monitoring

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Engineering controls and appropriate working practices take precedence over personal protective equipment.

Appropriate engineering controls

Ensure adequate ventilation.

Personal protective equipment**Respiratory protection**

Respiratory protection in case of aerosol or mist formation (e.g. half mask (according to EN405) with filter A (P2)). No special measures are required if the TLV value is consistently adhered to.

Eye/face protection

Wear tightly fitting safety goggles in accordance with EN 166.

Hand protection

Wear chemical-resistant, impermeable gloves that comply with a recognised standard if required by a risk assessment. Reference number EN 374-3, nitrile rubber, layer thickness: 0.40 mm, breakthrough time: > 120 min. For full contact: butyl rubber, film thickness: 0.7 mm, breakthrough time: > 480 min.

Other protective measures

Wear solvent-resistant and antistatic protective clothing. Personal protective equipment must be selected depending on the activity and potential exposure.

Limitation and monitoring of environmental exposure

Do not let product enter the environment.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless
Odour:	alcoholic / aniseed
Odour threshold:	No data available.
pH at 10 g/l H₂O (20 °C):	7.0
Dynamic viscosity (20 °C):	1.2 mPa*s
Melting point:	No data available.
Boiling point:	No data available.
Ignition temperature:	No data available.
Flash point:	22.5 °C
Evaporation rate:	No data available.
Explosion hazards:	No data available.
Explosion limits: lower	No data available.
upper	No data available.
Oxidising properties:	No data available.
Vapour pressure (20 °C):	No data available.
Relative vapour density:	No data available.
Density (20 °C):	0.899 g/cm ³
Solubility in water (20 °C)	soluble
in organic solvents:	soluble
Spontaneous combustion:	No data available.
Decomposition temperature:	No data available.
Dynamic viscosity:	No data available.
Kinematic viscosity	No data available.
log K_{ow} :	No data available.

9.2. Other information

Solvent content VOC (CH): 60 %

Section 10: Stability and reactivity

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10.1. Reactivity

No decomposition if stored and used as intended.

10.2. Chemical stability

The product is stable provided it is used in accordance with the manufacturer's instructions (see Section 7).

10.3. Possibility of hazardous reactions

Formation of flammable vapour-air mixtures is possible.

Uncleaned empty containers may contain product vapours that form explosive mixtures with air.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

Oxidising agents, rubber, various plastics.

10.6. Hazardous decomposition products

No decomposition if used as intended.

 In the event of fire, CO and CO₂ are produced (see Section 5).

Section 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity according to the ECHA online database

Designation	CAS No.	LD ₅₀ oral (test organism)	LD ₅₀ dermal (test organism)	LC ₅₀ inhalation (test organism)
Ethanol	64-17-5	1'187 – 15'010 mg/kg (rat)	No data.	82.1–92.6 mg/L air (rat)
<i>trans</i> -Anethole	4180-23-8	1'420 – 3'070 mg/kg body weight (rat)	4'900 mg/kg body weight (rabbit)	5.1 mg/L air (rat)

Skin corrosion/irritation (product):

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

Serious eye damage/irritation (product):

The product is classified. Splashes of liquid entering the eyes may cause severe irritation.

Respiratory tract / skin sensitisation (product):

 The product is not classified. Contains *trans*-anethol. May cause allergic skin reactions in sensitised individuals.

Germ cell mutagenicity (product):

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

Carcinogenicity (product):

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

Reproductive toxicity (product):

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

Specific target organ toxicity following repeated exposure

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

Specific target organ toxicity following single 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. Additional Information**Endocrine disrupting properties**

This mixture does not contain any substances with endocrine-disrupting properties, as defined in Article 57(f) of the REACH Regulation or Delegated Regulations (EU) 2017/2100 and (EU) 2023/707, in concentrations of $\geq 0.1\%$. Therefore, there are no health effects due to endocrine-disrupting properties.

Other Information

When used as intended, no adverse health effects are expected.

Section 12: Ecological information**12.1. Toxicity****Toxicity of the product:**

No information is available for the product.

Ecotoxicity of ethanol (source: ECHA)

Acute fish toxicity: LC50 (exposure time 4 days): 14.2 – 15.4 g/L

Acute toxicity to aquatic invertebrates: EC50 (48 h): 10 g/L

Acute toxicity to algae and cyanobacteria: EC50 (4 days): 675 – 22'000 mg/L

Ecotoxicity of *trans*-anethol (Source: ECHA)

Acute fish toxicity: LC50 (exposure time 4 days): 7 mg/L

Acute toxicity to aquatic invertebrates: EC50 (48 h): 4.25 mg/L

Acute toxicity to algae and cyanobacteria: IC50 (4 days): 9.571 mg/L

12.2. Persistence and degradability

Readily biodegradable (ethanol).

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of the PBT and vPvB assessment

The product does not meet the criteria for substances that are PBT or vPvB. (Does not contain components classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in concentrations of $\geq 0.1\%$.)

12.6. Endocrine-disrupting properties

This mixture does not contain any components with endocrine disrupting properties in concentrations $\geq 0.1\%$, as defined in Article 57(f) of the REACH Regulation or in Delegated Regulations (EU) 2017/2100 and (EU) 2023/707. Therefore, no environmentally relevant effects due to endocrine disrupting properties are present.

12.7. Other adverse effects

Water hazard class 1 (self-classification): Slightly hazardous to water

Do not let product in large quantities enter groundwater, surface waters, or the sewage system.

Section 13: Disposal considerations**13.1. Waste treatment methods****Unused product**

Disposal must be carried out in accordance with official regulations.

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Ordinance on the Movement of Waste SR 814.610:

16 05 06 [S] Laboratory chemicals consisting of or containing dangerous substances, including mixtures of laboratory chemicals

EU Waste Catalogue:

16 05 06 * Laboratory chemicals consisting of or containing hazardous substances, including mixtures of laboratory chemicals

Packaging and absorbent material contaminated with the product

Dispose of in accordance with official regulations.

Waste code

Ordinance on the Movement of Waste SR 814.610:

15 02 02 [S] Absorbent and filter materials (including oil filters not mentioned elsewhere), wiping cloths and protective clothing contaminated by hazardous substances

EU Waste Catalogue:

15 02 02 * Absorbents and filter materials (including oil filters not otherwise specified), wiping cloths and protective clothing contaminated by hazardous substances

Section 14: Transport information**The product is classified as a dangerous good in accordance with transport regulations.****14.1. UN number**

ADR / IMDG / IATA UN 1170

14.2. UN Proper shipping name

ADR / IMDG / IATA ETHANOL

14.3. Transport hazard classesADR Class: 3 (F1), Flammable liquids
Hazard label: 3, Flammable liquids**14.4. Packaging group**

II

14.5. Environmental hazards

ADR / RID / IMDG Code: No

IATA DGR: No

14.6. Special precautions for the user

Hazard number 33

Classification code F1

Transport category 2

Tunnel restriction: D/E

14.7. Maritime transport in bulk according to IMO instruments

Pollution category (X, Y or Z): not assessed

Ship type (1, 2 or 3): not assessed

Section 15: Regulatory information

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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**National regulations****Seveso III Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances:**

P5 (b,c) Flammable liquids.

Water hazard class (AwSV):

WGK 1: slightly hazardous to water (self-classification).

Other regulations:

Observe employment restrictions in accordance with the provisions on the protection of young people at work (94/33/EC).

CH regulations**Chemicals Ordinance (ChemV) SR 813.11**

No group in accordance with Art. 61 ChemV.

Major Accidents Ordinance (StfV) SR 814.012:

Quantity threshold in accordance with the Major Accidents Ordinance: 20'000 kg.

Restrictions in accordance with the Chemicals Risk Reduction Ordinance (ChemRRV) SR 814.81:

No restrictions.

Ordinance of the Federal Department of Education, Research and Innovation (WBF) on hazardous work for young people SR 822.115.2:

Young people undergoing basic vocational training may only work with this product (substance/preparation) if the relevant training ordinance makes provision for them to do so with a view to enabling them to achieve their training objectives and if the preconditions for the training plan have been met and the applicable age restrictions have been complied with. Young people who are not undergoing any basic vocational training are not permitted to work with this product. Male and female employees who are under 18 years old are classed as young people.

Article 13 of the Maternity Protection Ordinance (SR 822.111.52):

No restrictions.

VOC Ordinance (VOCV) SR 814.018:

VOC content: 60%

15.2. Chemical Safety Assessment

A chemical safety assessment was not carried out for this product.

Section 16: Other information**Changes from the previous version**

Further actualization in accordance with Directive 2020/878 EU.

Abbreviations and acronyms:

AwSV: Administrative Regulation on Substances Hazardous to Water

FOEN: Federal Office for the Environment

CAS: Chemical Abstracts Service

ChemRRV: Ordinance on the Reduction of Risks from Chemicals SR 814.81

ChemV: Ordinance on Protection against Hazardous Substances and Preparations SR 813.11

CLP: Classification, Labelling and Packaging of Chemicals

EC: effect concentration

ECHA: European Chemicals Agency

EC: European Community

EDI: Federal Department of Home Affairs

EN: European Standard

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GHS: Globally Harmonised System of Classification and Labelling of Chemicals
WPA: Water Protection Ordinance SR 814.201
IATA: International Air Transport Association
IMDG: International Maritime Dangerous Goods Code
LC: lethal concentration
NOEC: No Observed Effect Concentration
PBT: Persistent, bioaccumulative, toxic
PNEC: Predicted No Effect Concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: International Regulations concerning the Carriage of Dangerous Goods by Rail
STEL: Short-Term Exposure Limit
StFV: Ordinance on the Prevention of Major Accidents SR 814.012
SUVA: Swiss Accident Insurance Fund
TLV: Threshold Limit Value
vPvB: very persistent, very bioaccumulative
VOC: volatile organic compounds
VOCV: Ordinance on the Incentive Levy on Volatile Organic Compounds SR 814.018
WGK: Water Hazard Class

References and data sources

- ECHA Information on Chemicals (online database)
- SUVA workplace exposure limits database
- Safety data sheet for star anise oil, Frey & Lau, 01/08/2019

Methods in accordance with Article 9 of Regulation (EC) No 1272/2008 used to evaluate the information for the purposes of classification:

Additivity principles in accordance with Annex I

Wording of the hazard and precautionary statements in accordance with Regulation (EC) No 1272/2008 referred to in sections 2 to 15

H225 Highly flammable liquid and vapour.
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H341 May cause genetic defects
H351 Suspected of causing cancer
H412 Harmful to aquatic life with long-lasting effects
EUH208 - Contains *trans*-anethol. May cause allergic reactions.

Safety instructions

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P243 Take action to prevent static discharges.
P235 + P403 Keep cool, store in a well-ventilated place.
P280 Wear protective gloves and eye protection.
P333+P313: If skin irritation or rash occurs: get medical advice.

The information is based on our current knowledge; however, it does not constitute guarantee of product properties and do not constitute a contractual legal relationship. This safety data sheet complies with Regulation (EC) No 1907/2006, Article 31, as amended by Regulation (EU) 2020/878.