

Safety Data Sheet

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

1.1 Product identifier **ALCOHOL 99,8 %**

1.2. Relevant identified uses of the substance or mixture and uses advised against
 Product is used as cleaning agent in dental laboratory.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:	INTERDENT d.o.o.	<i>Production:</i> INTERDENT d.o.o.
Street:	Opekarniška cesta 26	Dol 1
Country code /Postal code/City:	SI-3000 Celje	SI-3342 Gornji Grad
Telephone:	+386(0) 425-62-00	
Fax:	+368(0) 490-62-02	

1.4 Emergency telephone number

Emergency phone: 112 (EU)
+386(0) 425-62-00 (Mon. – Fri.: 8.00 – 16.00)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008.

Flammable liquids	Hazard Category 2	H225 Highly flammable liquid and vapor.
Specific target organ toxicity – Single exposure	Hazard Category 3, Narcosis	H336 May cause drowsiness an dizziness.
Serious eye damage/eye irritation	Hazard Category 2	H319: Causes serious eye irritation.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008:

Hazard pictograms:

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Signal word: DANGER

Hazard statements:

H225: Highly flammable liquid and vapor.

H319: Causes serious eye irritation.

H336: May cause drowsiness and dizziness.

Precautionary statement:

Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P233 Keep container tightly closed.

P280 Wear protective gloves/protective clothing/eye protection/ face protection.

Response

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Disposal

P501 Dispose of contents/container to in accordance with local/regional/national/international regulation (to be specified).

Hazardous components on the label

Propan-2-ol

2.3 Other hazards

PBT and vPvB evaluations are in chapter 12.5.

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SECTION 3: Composition / information on ingredients

Chemical name	Index number EC number CAS number	%	Classification according EC 1272/2008	
			Hazardous class/hazardous category	Hazardous phrases
Propan-2-ol	603-003-00-0 200-661-7 67-63-0	> 99	Flam.Liq.2 Eye Irrit. 2 STOT SE3	H225 H319 H336

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Inhalation:

Remove victim to the fresh air, keep him warm. If not breathing: artificial respiration. In the case of unconsciousness keep victim in position of unconscious. Ask for medical help when difficulties appear.

Skin contact:

Remove contaminated clothing. Wash off with soapy water.

Eye contact:

Wash off open eye with plenty of water. Ask for medical help when difficulties appear.

Ingestion:

Do not induce vomiting. First wash mouth with water and then drink 100 mL of water. Ask for medical help.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Symptoms of excessive exposure can be headache, dizziness, fatigue, nausea and vomiting. Irritating to eyes. Can cause redness, watering and weakening of vision. Refer to Section 11 – Toxicological information for detailed information.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable:

CO₂, foam, dispersed jet of water. Large fire extinguishers with dispersed jet of water or

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foam resistant to alcohol.

Unsuitable:

Direct water

5.2 Special hazards arising from the substance or mixture

Easy flammable. Explosive mixture with air can be formed when product is heated or in the case of fire. Vapor is heavier than air and can be spread over the floor. Dangerous products of thermal decomposition are formed like carbon monoxide, carbon dioxide.

5.3 Advice for firefighters

Use breathing apparatuses. Threatened containers cool down with dispersed jet of water. Warming up can raise the pressure – risk of outbreak. Collect contaminated water used for firefighting separately. Do not release it in sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Insure against source of fire and heat. Wear protective equipment. Avoid skin contact and eye contact. Do not breathe mist.

6.2 Environmental precautions

Do not allow enter sewage system or waters. Prevent soil penetrating.

6.3 Methods and material for containment and cleaning up

Absorb with sand, earth, diatomic earth, blotting paper, sawdust. Dispose in accordance with law about waste material.

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

Ventilation required. It can be used only in good ventilated places. Keep away from the source of ignition, prevent from static discharges, use apparatuses protect against explosion and tool which does not spark. Do not disperse in fire or to red-hot object. Do not eat, drink or smoke during use of product. Wash hands before and after use. Remove contaminated clothing.

7.2 Conditions for safe storage, including any incompatibilities

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Keep in closed vessel away from food and water. Store it on room temperature away from direct sunlight and source of ignition. Do not smoke. Vapors are heavier than air and can be spread over the floor. Vapors can form explosive mixture with air. Prevent static electric discharge.

7.3. Specific end use(s)

Product is intended to be used in dental laboratories as cleaning agent.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that have to be considered and measured in the working place

Propan-2-ol

MV	Current exposure: 1000 mg/m ³ , 400 ppm Long-term exposure: 500 mg/m ³ , 200 ppm Y, BAT	
Oral	DNEL	26 mg/kg (users-long-term exposure-systemic effect)
Dermal		888 mg/kg (workers-long-term exposure-systemic effect) 319 mg/kg (users-long-term exposure-systemic effect)
Inhalable		500 mg/m ³ (workers-long-term exposure-systemic effect) 89 mg/m ³ (users-long-term exposure-systemic effect)

Ingredients with biological limit values

Propan-2-ol

BAT	25 mg/l Biological sample: blood Time of sampling: at the end of working shift Characteristic indicator: acetone
	25 mg/l Biological sample: blood Time of sampling: at the end of working shift Characteristic indicator: acetone

For Propan-2-ol

Foresee concentration without effect (PNEC):

Fresh water: 140,9 mg/l

Sea water: 140,9 mg/l

Release intervals: 140,9 mg/l

Waste water treatment plant: 2251 mg/l

The sediment associated with the weight of the dry material: 552 mg/kg

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Floor associated with the weight of the dry matter: 28 mg/kg
 Secondary poisoning associated with food: 160 mg/kg

8.2 Exposure controls

Personal protective equipment in accordance with Regulation (EU) 2016/425 And List of harmonized standards for personal protection equipment 2018/C 209/03.

Personal protective equipment

General protection and hygienic measures:

During work do not eat, drink or smoke. Wash hand before break and when you finish with work.

Hand protection:

Gloves resistance against solvent. Material: butyl rubber; breakthrough time \geq 8h at thickness 0,5 mm. Material: nitrile rubber; breakthrough time \geq 8h at thickness 0,35 mm. Material: fluor rubber; breakthrough time \geq 8h at thickness 0,4 mm

Respiratory protection:

With sufficient ventilation and with regards to intended use any special protection is not necessary, otherwise mask EN 140:1998/AC:1999 with protective filter type A [boiling point $>65^{\circ}\text{C}$ (149°F)] (EN14387:2004+A1:2008).

Skin and body protection:

Protective antistatic coat (EN ISO 1149-5:2008) and antistatic footwear (EN ISO 20345:2011).

Eye protection:

Wearing safety goggles (EN 166:2001).

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	Liquid
Colour	colorless
Odour	Alcoholic like
pH	8.1
Density	0,94 g/mL (20 °C)
Data are for propan-2-ol	
pH	neutral
Boiling point	82°C
Flashpoint	12°C
Autoignition	No data available

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Upper explosion limit	12 % (vol)
Lower explosion limit	2 % (vol)
Oxidative characteristics	n.a.
Vapour pressure	48 hPa (20°C)
Density	0,785 g/cm ³
Solubility in water	miscible in all ratios
Partition coefficient: n-octanol/water	log Kow 0,05 (OECD Test guideline 107) literature value
Viscosity	2,43 mPa·s (20°C)
Vapour density	n.a.
Evaporation rate	n.a.
9.2 Other information No additional information	

SECTION 10: Stability and reactivity

10.1 Reactivity

Not reactive under normal conditions and proper use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reaction

Exothermic reaction with strong acids. Incompatible with oxidants.

10.4 Conditions to avoid

Warm, heat, flames, spark. Temperature raise causes vapor formation in packaging and packaging can explode, product is spilled. Product is in form of spray and must not be sprayed in the flame.

10.5 Incompatible materials

Strong acids, oxidants

10.6 Hazardous decomposition products

In case of fire: CO₂ and CO

SECTION 11: Toxicological information

11.1 Information on toxicological effects

All values for toxicity related to the pure substance. Prolonged skin contact may cause degreasing of the skin and may cause dermatitis. Inhalation of high vapor concentrations

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may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. There is a risk that the product gets into the lungs in case of vomiting. Injuries may occur liver.

Acute toxicity On the basis of available data measurements for sorting are not fulfilled.

Chemical name: Propan-2-ol

Important LD/LC50 sorting values:

Route	LD50	Value
Oral		>2000 mg/kg (rat)
Dermal		>2000 mg/kg (rabbit)
Inhalative		20 mg/kg (rat)

Skin irritation: not irritant

Eye irritation: irritant (OECD test guideline 405)

Sensitization: Does not cause skin irritation (OECD test guideline 406). No sensitizing effects known.

CMR effects

Mutagenicity: Ames test:

Carcinogenicity: Not considered to be carcinogenic.

Teratogenicity: No effects on lactation or beyond.

Reproductive toxicity: Not applicable for toxic for reproduction.

SECTION 12: Ecological information

12.1 Toxicity

Water:

LC50/ 48 h >100 mg/l (fish)

EC50/ 72 h >100 mg/l (algae)

EC50/ 48 h >100 mg/l (daphnia)

12.2 Persistence and degradability

Duration of effect: no data available

Biodegradability: Easy biodegradable.

12.3 Bio accumulative potential

Bioaccumulation is not expected ($\log Pow \leq 4$).

12.4 Mobility in soil

Product is mobile in environment.

12.5 Results of PBT and vPvB assessment

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The substance is not considered to be persistent, bio accumulative or toxic. The substance is not considered to be very persistent and very bio accumulative.

12.6 Other adverse effect

All numerical values in respect of Eco toxicological effects relate to the pure substance.
Avoid empty into drains, water courses or the soil.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Methods of disposal: It is forbidden to dispose the product with other municipal waste. Dispose in accordance with Statute about handling with waste.

Empty packaging disposal: Packaging that must be disposed should be completely empty. Packaging with the product dispose in accordance with Statue about waste handling.

Waste category: 16 03 05* Organic waste that contain hazardous substances

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SECTION 14: Transport Information			
	ADR/RID	IMDG	IATA
14.1 UN number	UN 1219		
14.2 UN proper shipping name	isopropanol (isopropylalcohol)		
14.3 Transport hazard class(es)			
Class	3		
Classification code	F1	/	/
Labels(s)	3		
Hazard identification	33	/	/
Transport category (Tunnel restriction code)	(D/E)	/	/
EmS	/	F-E, S-D	/
14.4 Packing group	II		
14.5 Environmental hazards	No environmental hazard		
14.6 Special precautions for user	No special precautions		
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	No data available		
Limited quantities (LQ)	1 L	1 L	
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	

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SECTION 15: Regulatory information

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

Product is classified in accordance with directive EC 1907/2006 and 1272/2008 and additional changes or national legislation Ur.l. RS 101/2002 and Ur.l.RS 16/2008.

15.2 Chemical safety assessment

No data available from component's supplier.

SECTION 16: Other information

Revision:

Version 03 issued on January 2022 in accordance with EC 1907/2006 (Commission Regulation (EU) 2015/830) and EC 1272/2008.

Legend of abbreviations:

ADR – European agreement concerning the international carriage of dangerous goods by road

CAS – Chemical Abstracts Service

CLP – Classification, Labeling and Packaging

CMR – Carcinogenic, Mutagenic or toxic for Reproduction

DNEL - Derived no-effect level

EC₅₀: Half maximal effective concentration

EmS – Emergency Schedule

GHS – Globally Harmonised System of Classification and Labeling of Chemicals

IATA – International Air Transport Association

IMDG – International Maritime Dangerous Goods Code

LC₅₀: Lethal concentration, 50%

LD₅₀: Median lethal dose; the dose causing 50% lethality

MARPOL – International convention for the prevention of pollution from ships

NOEC - No-observed-effect concentration

OEL - Occupational exposure limit

OECD - Organisation for Economic Co-operation and Development

PBT – Persistent Bioaccumulative Toxic

PNEC: Predicted no-effect concentration

Ppm – parts per million

REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals

RID – Regulation concerning the international carriage of dangerous goods by rail

vPvB – very Persistent and very Bioaccumulative

References:

Safety data sheets of the producer of the raw material for the product

Martindale: The Extra Pharmacopoeia, 13. edition

European convention about international transport of hazardous material ADR

Ur. l RS 36/99, 45/00, 104/00, 101/02, 9/03, 65/03

Disclaimer of expressed and implied warranties:

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Safety data sheet give information about previous knowledge about the product, actually about raw material in product. It is guideline for safe using, handling, disposing, storage and transport and cannot be used as guarantee.