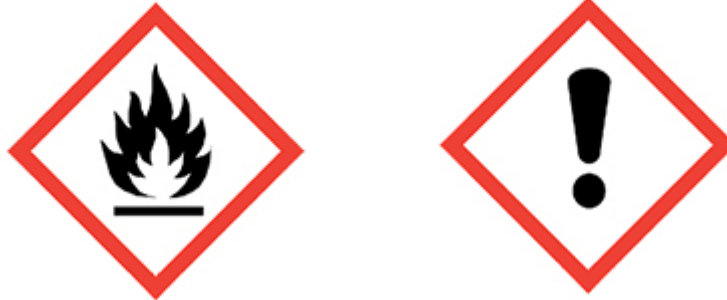




## Safety Data Sheet



**Signal word: DANGER**

**Hazard statements:**

H225: Highly flammable liquid and vapour.

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).

**Component on the label:**

Propan-2-ol

**2.3 Other hazards**

PBT and vPvB evaluations are in chapter 12.5

### **SECTION 3: Composition / information on ingredients**

## Safety Data Sheet

Chemical name	Index number EC number CAS number	%	Classification according to EC 1272/2008	
			Hazardous class/hazardous category	Hazardous phrases
<b>Propan-2-ol</b>	603-117-00-0 200-661-7 67-63-0	> 95	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 100mL 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.

Effects: See chapter 11 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:*

CO<sub>2</sub>, foam, dispersed jet of water. Large fire extinguish with dispersed jet of water or foam resistant on alcohol.

*Unsuitable:*

Direct water

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### 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. Vapour 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

*Special protective equipment for firefighting:*

Use breathing apparatuses.

*Other instructions*

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, diatomeic earth, blotting paper, sawdust and keep in container marked with suitable label. 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.

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### 7.2 Conditions for safe storage, including any incompatibilities

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. Vapours are heavier than air and can be spread over the floor. Vapours 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 for reduction of surface tension of wax, silicone.... All recommendation for safe use are intended for professional use of the product.

## **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**

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

#### **Ingredients with biological limit values**

##### **Propan-2-ol**

<b>BAT</b>	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

#### **Foreseen 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

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The sediment associated with the weight of the dry material: 552 mg/kg  
 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 EN ISO 374-1:2016.

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  $>65^{\circ}\text{C}$  ( $149^{\circ}\text{F}$ )] (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).

#### 8.2.2 Control of environment protection

Common instructions: Do not wash rinse with fresh water or to drainage system. If the aquaducte or drainage system is contaminated, inform competent authorities immediately.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

<b>Form</b>	Liquid
<b>Colour</b>	red (colour of the product)
<b>Odour</b>	Alcoholic like

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Data are for propan-2-ol	
<b>pH</b>	neutral
<b>Boiling point</b>	82°C
<b>Flashpoint</b>	12°C
<b>Autoignition</b>	No data available
<b>Upper explosion limit</b>	12% (vol)
<b>Lower explosion limit</b>	2% (vol)
<b>Oxidative characteristics</b>	n.a.
<b>Vapour pressure</b>	48hPa (20°C)
<b>Density</b>	0,785g/cm <sup>3</sup>
<b>Solubility in water</b>	miscible in all ratios
<b>Partition coefficient: n-octanol/water</b>	log Kow 0,05 (OECD Test guideline 107) literature value
<b>Viscosity</b>	2,43 mPa·s (20°C)
<b>Vapour density</b>	n.a.
<b>Evaporation rate</b>	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 and proper use.

### **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 vapour 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: CO<sub>2</sub> and CO

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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 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.

**STOT-single exposure:** Not classified as STOT – single exposure.

**STOT-repeated exposure:** Not classified as STOT – repeated exposure.

**Aspiration hazard:** Not classified as aspiration hazard.

## SECTION 12: Ecology information

### 12.1 Toxicity

Accute toxicity – fish: LC50: 9640mg/l (pimephales promelas; 96h)

Accute toxicity for daphnia magna and other water vertebrate: LC50: 9714 mg/l (daphnia magna; 24h)

Accute toxicity – algae: EC50: > 100mg/l (Scenedesmus subspicatus; 72h)

Accute toxicity – bacteria: > 100mg/l (bacteria, without harmful effect)

### 12.2 Persistence and degradability



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Duration of effect: no data available  
Biodegradability: 53% (exposure time: 5d) Easy biodegradable.  
Bioaccumulation: Bioaccumulation not expected.

### 12.3 Bioaccumulative potential

Bioaccumulation is not expected.

### 12.4 Mobility in soil

Product is mobile in environment.

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Other adverse effects

All numerical values in respect of ecotoxicological 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 Statute about waste handling.

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

*Category of empty packaging:* 15 01 02 Plastic packaging

## Safety Data Sheet

<b>SECTION 14: Transport Information</b>			
	ADR/RID	IMDG	IATA
<b>14.1 UN number</b>	UN 1219		
<b>14.2 UN proper shipping name</b>	ADR: isopropanol (isopropyl alcohol) IMDG, IATA: Isopropanol (Isopropyl alcohol)		
<b>14.3 Transport hazard class(es)</b>			
Class	3		
Label	3		
Classification code	F1	/	/
Hazard identification	33	/	/
Transport category (Tunnel restriction code)	2 (D/E)	/	/
EmS	/	F-E, S-D	/
<b>14.4 Packing group</b>	II		
<b>14.5 Environmental hazards</b>	No environmental hazard		
<b>14.6 Special precautions for user</b>	No special precautions		
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	No data available		

### **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:

## Safety Data Sheet

Version 09 issued on December 2022 in accordance with EC 1907/2006 (Commission Regulation (EU) 2015/830) and EC 1272/2008.

Revision in accordance to changes in COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

### *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  
EC<sub>50</sub>: 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  
LC<sub>50</sub>: Lethal concentration, 50%  
LD<sub>50</sub>: 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:*

#### *References:*

Safety data sheets of the substances for the product  
Martindale: The Extra Pharmacopoeia, 13. edition  
Directive EC 1907/2006 and 1272/2008 with all amendments  
Council Directive 98/24/EC with all implementations and amendments  
Official Gazette RS, No. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18, 78/19; 72/21  
Directive 2008/98/EC with all amendments, Official Gazette RS 37/15, 69/15.  
Official Gazette RS 36/99, 45/00, 104/00, 101/02, 9/03, 65/03;  
European convention about international transport of hazardous material ADR

### *Disclaimer of expressed and implied warranties:*

## **Safety Data Sheet**

The information contained in the safety data sheet have been translated from the manufacturer, revised in accordance with the Slovenian legislation. Guidelines for the safe use, handling, disposal, storage and transportation and cannot be used as a guarantee. The information relates only to the specific product and is not suitable for combining with other materials or for use in another process as described in the instructions.