Safety Data Sheet

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

1.1 Product identifier **INTERFILM**

1.2. Relevant identified uses of the substance or mixture and uses advised against
Product is used as separating liquid. Separates wax from stone and wax from metal.

1.3 Details of the supplier of the safety data sheet

		Production:
Manufacturer/Supplier:	INTERDENT d.o.o.	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.

Hazard class	Hazard category	Hazard statements
Flammable liquids	2	H225: Highly flammable liquid and vapour.
Specific target organ toxicity – Single exposure	3, Narcosis	H336: May cause dowsiness and dizzines.
Serious eye damage/eye irritation	2	H319: Causes serious eye irritation.

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

Hazard pictograms:

Signal word: DANGER
Hazard statements:
H225: Highly flammable liquid and vapour.
H319: Causes serious eye irritation.
H336: May cause dowsiness and dizzines.

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).

Substance on the label:
Propan-2-ol

2.3 Other hazards
PBT and vPvB evaluations are in Section 12.5

SECTION 3: Composition / information on ingredients

Chemical name	**Index number** **EC number** **CAS number**	**%**	**Classification according to EC 1272/2008**	
			Hazardous class/hazardous category	Hazardous phrases
Propan-2-ol	603-117-00-0 200-661-7 67-63-0	40-50	Flam.Liq.2 Eye Irrit. 2 STOT SE3	H225 H319 H336
Polyethylene glycol	/ / 25322-68-3	30-40	/	/
Glycerin	/ 200-289-5 56-81-5	10-20	/	/

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.

E*ye 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:

CO_2, foam, dispersed jet of water. Large fire extinguish with dispersed jet of water or 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. 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
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
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 insulation plaster against wax, wax against metal, plaster against plaster. 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		
OEL	Current exposure: 1000 mg/m^3, 400 ppm Long-term exposure: 500 mg/m^3, 200 ppm Y, BAT	
Oral **Dermal** **Inhalable**	**DNEL**	26 mg/kg (users-long-term exposure-systemic effect) 888 mg/kg (workers-long-term exposure-systemic effect) 319 mg/kg (users-long-term exposure-systemic effect) 500 mg/m3 (workers-long-term exposure-systemic effect) 89 mg/m3 (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
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
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

Polyethylene glycol	
OEL	Current exposure: 8000 mg/m^3 (I) Long-term exposure: 1000 mg/m^3 (I) (Directive 98/24/EC, 2000/39/EC and all amendments)

Glycerin	
OEL	Current exposure: 400 mg/m^3 (I) Long-term exposure: 200 mg/m^3 (I) (Directive 98/24/EC, 2000/39/EC and all amendments)

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 ≥ 8h at thickness 0,5 mm. Material: nitrile rubber; breakthrough time ≥ 8h at thickness 0,35 mm.
Material: fluor rubber; breakthrough time ≥ 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°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).

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

Form	Liquid
Colour	red (colour of the product)
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
Upper explosion limit	12% (vol)
Lower explosion limit	2% (vol)
Oxidative characteristics	n.a.
Vapour pressure	48 hPa (20°C)
Density	0,785g/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 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_2 and CO

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:		
Oral	**LD50**	>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.

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SECTION 12: Ecological information

12.1 Toxicity
Accute toxicity – fish: LC_{50}: 9640mg/l (*Pimephales promelas*; 96h)
Accute toxicity for daphnia magna and other water vertebrate: LC50: 9714 mg/l (*Daphnia magna*; 24h)
Accute toxicity – algae: EC_{50}: > 100mg/l (*Scenedesmus subspicatus*; 72h)
Accute toxicity – bacteria: > 100mg/l (bacteria, without harmfull effect)

12.2 Persistance and degradability
Duration of effect: no data available
Biodegradability: 53% (exposure time: 5d) Easy biodegradable.

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 effect
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 Statue about waste handling.

Waste category: 16 03 05* Organic waste that contain hazardous substances
Empty packaging waste category: 15 01 02 Plastic packaging

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SECTION 14: Transport Information

	ADR/RID	IMDG	IATA
14.1 UN number	UN 1219		
14.2 UN proper shipping name	ADR: isopropanol (isopropylalcohol) IMDG, IATA: Isopropanol (Isopropyl alcohol)		
14.3 Transport hazard class(es)			
Class	3		
Classification code	F1	/	/
Label(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 Maritime transport in bulk according to IMO instruments	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:

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_{50}: 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_{50}: Lethal concentration, 50%
LD_{50}: 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 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
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:
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.