

Safety Data Sheet

1. Name of material/Company trademark

1.1 Commercial name: INTERFILM
 1.2 Usage of the product: Isolation of wax again plaster, plaster again plaster, wax again metal.
 1.3 Manufacturer/Supplier: INTERDENT d.o.o. PRODUCTION INTERDENT d.o.o.
 Address: Opekarniška cesta 26 Dol 1
 SI-3000 Celje SI-3342 Gornji Grad
 Telephone number: +386 (0) 3 425-62-00
 Fax: +386 (0) 3 490-62-02
 1.4 Emergency phone: +386 (0) 3 425-62-00, +386 (0) 41 608-435

2. Possible dangerous effects

2.1 Classification in accordance with Directive EU 67/548/EGS or 1999/45/ES

Classification: F



HIGHLY FLAMMABLE

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IRRITANT

Risk phrases: R11-R36-R67

Hazards to human health: It irritate the eyes. In case of exposure or direct contact wash off the eyes with plenty of water and seek for medical attention. It is harmful to health when inhaled and it cause dizziness or drowsiness, so make sure that the cover is closed after use.

Physical/Chemical hazards: It is highly flammable. During use of the product vapours are formed that can be flammable or explosive as a mixture with air. Do not store the product near the source of ignition and do not smoke when use it.

2.2 Classification in accordance with ES 1272/2008

Elements of label



Hazardous sign:

Precaution word:

Hazard statements:

H319: Causes serious eye irritation.

Danger

H225: Highly flammable liquid and vapour..

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H336: May cause drowsiness and dizziness.

Precaution statements

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

P233 Keep container tightly closed.

P 280 Wear protective gloves/protective clothing/eye protection/ face protection.

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.

Hazardous components on the label:

Propan-2-ol

Other hazards

PBT and vPvB evaluations are in chapter 12.5.

3. Ingredient Content/Ingredient information

CHEMICAL NAME	Index number EC number CAS number	%	Classification according directive ES 1272/2008		Classification according 67/548/EGS
2-propanol	603-003-00-0 200-661-7 67-63-0	> 95%	Hazardous class/hazardous category	Hazardous phrases	F: R11 Xi: R36, R67
			Flam.Liq.2 Eye Irrit. 2 STOT SE3	H225 H319 H336	

Complete R phrases and H statements are in chapter 16.

4. First aid

4.1 First aid actions

Skin contact: Remove contaminated clothing. Wash off with soapy water.

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.

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, 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.

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Effects: See chapter 11 for detailed information.
4.3 Particulars about any immediate medical attention and special treatment
Treatment: Symptomatic treatment

5. Fire prevention regulation

5.1 Extinguishing media

Suitable: CO₂, foam, dispersed jet of water. Large fire extinguish with dispersed jet of water or foam resistant on alcohol.

Unsuitable: direct water

5.2 Special hazards arising from the substance

Specific danger during firefighting:: 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 fireman

Special protective equipment: Use breathing apparatuses.

Other data: 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.

6. Accidental release measures

6.1 Personal precautions: 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 for cleaning up

Cleaning procedures/removal: Absorb with sand, earth, diatomeic earth, blotting paper, sawdust and keep in container marked with suitable labell. Dispose in accordance with law about waste material.

6.4 Referenced to other chapters

See chapter 8 for information regarding protective equipment. See chapter 13 for disposal information.

7. Handling and storage

7.1 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.

Instruction for safe handling: 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 Storage:** 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 The specific use:** 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.

8. Exposure controls and personal protection

8.1 Occupational exposure limits

Limit under which substance has no effect (DNEL)

Workers, longterm exposure, skin contact:	888 mg/kg KW/day
Workers, longterm sistematic exposure, inhalation:	500 mg/m ³
Users, Longterm sistematic exposure, skin contact:	319 mg/kg KW/day
Users, Longterm sistematic expoure, inhalation:	89mg/m ³
Usres, longterm sistematic effects, ingestion:	26 mg/kg KW/day

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	

8.2 Monitroing of occupational exposure limits

Maximal allowable concentration in the workplace:

SI OEL time average: 200ppm, 500mg/m³

Personal protection:

Respiratory system: With sufficient ventilation and with regards to intended use any special protection is not necessary, otherwise protective filter type A.

Skin and body protection: Protective coat.

Eye protection: Wearing blinkers.

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

Generally safety precaution

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

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8.2.2 Monitoring of area exposure

General instruction: Do not spill into inland water or sewage system. Avoid entering the soil.

9. Physical and chemical properties

9.1 General information

Physical state: liquid
Colour: red (colour of the product)
Odour: alcoholic like
pH: 8,1
Density: 0,94 g/mL (20°C)

9.2 Important information about health, safety and environment

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: no data available
Vapour pressure: 48hPa (20°C)
Density: 0,785g/cm³
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: no data available
Evaporation rate: no data available

9.2 Other information

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10. Stability and reactivity

10.1 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.

10.2 Materials to avoid: Exothermic reaction with strong acids. Incompatible with oxidants.

10.3 Decomposition products:
No informations available

10.4 Dangerous decomposition products
In case of fire: CO₂ and CO

10.5 Incompatible substances: strong acids, oxidants

11. Toxicology information

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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.

Chemical name:	Propan-2-ol
Acute toxicity - oral:	LD50 (rat): 5840 mg/kg (OECD test guideline 401)
Acute toxicity - dermal:	LD50 (rabbit): 13900 mg/kg (OECD test guideline 402)
Acute toxicity - inhalation:	25 mg/l (rat; 6h; vapours) (OECD test guideline 403)
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.

12. Ecology information

12.1 Ekotoxicity

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 Mobility

Product is mobile in environment.

12.3 Persistence and degradability

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

12.4 Bioaccumulative

Bioaccumulation is not expected.

12.5 Evaluation results PBT and vPvB

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.

13. Disposal instructions

13.1 Methods of disposal

Product:

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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Category of empty packaging: 15 01 02 Plastic packaging

14. Transport information

14.1 UN number: UN 1219

14.2

Correct name of the shipment:	ADR:	isopropanol (isopropylalcohol)
	RID:	isopropanol (isopropylalcohol)
	IMDG:	isopropanol (isopropylalcohol)
	IATA:	isopropanol (isopropylalcohol)

14.3 Hazard transport classes

ADR class: 3

(hazard labell, classification code, packaging group, hazard number, tunnel restriction code): 3, F1, II, 33, (D/E)

RID class: 3

(hazard labell, classification code, packaging group, hazard number, tunnel restriction code): 3, F1, II, 33, (D/E)

IMDG class: 3

(labell, EmS): 3; F-E, S-D

IATA class: 3

packaging group: II

14.4 Packaging group

ADR: II

RID: II

IMDG: II

IATA: II

14.5 Danger for environment

Labelling in accordance with 5.2.1.8 ADR: n.a.

Labelling in accordance with 5.2.1.8 RID: n.a.

Labelling in accordance with 5.2.1.6.3. IMDG: n.a.

Classification as danger to environment in accordance with 2.9.3 IMDG: not pollutant

Classification »P« in accordance with 2.10 IMDG: n.a.

14.6 Special precautions for user

Remark: no remarks

15. Regulations

15.1 Regulation/legislation about health, safety in environment, specific for substance or mixture

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

Elements of label



Hazardous sign:

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Precaution word: Danger
Hazard statements: H225: Highly flammable liquid and vapour.
H319: Causes serious eye irritation.
H336: May cause drowsiness and dizziness.

Precaution statements
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P233 Keep container tightly closed.
P 280 Wear protective gloves/protective clothing/eye protection/ face protection.
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.

Hazardous components on the label:
Propan-2-ol

15.2 Evaluation of chemical safety
No data available from component's supplier.

16. Other information

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 can not be used as guarantee.

Sources:a

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. I RS 36/99, 45/00, 104/00, 101/02, 9/03, 65/03, Uredba ES 1272/2008

R phrases:

R10 Flammable
R66 Repeated exposure may cause skin dryness or cracking.
R67: Vapours may cause drowsiness and dizziness

Hazard statements

H225: Highly flammable liquid and vapour.
H319: Causes serious eye irritation.
H336: May cause drowsiness and dizziness.

Safety Data Sheet issue and a number of changes relating to the version: version 4 , an adaptation of the safety data sheet under Regulation EC 1272/2008 .

Precaution statements

P240 Ground container and receiving equipment.
P243 Take precautionary measures against static discharge.

Storage:

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