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# 1. Identification

· Product identifier

Trade name: Ribbond Wetting Resin

Application of the substance or the preparation

Dental product: Unfilled Resin

· Manufactured for:

Ribbond, Inc.

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# 2. Hazards Identifications

The preparation of this document has been carried out according to the U.S. OSHA Hazard Communication Standard. Therefore, all the known hazards of the product or components have to be included regardless the potential risk.

# Hazard classification

Serious eye damage/Irritation: Category 2B. Skin Sensitizer: Category 1B.

Label elements

Signal word: Warning. Symbols: Exclamation mark.

Pictograms



Restricted use by dental professional only.

Hazard statement

Causes eye irritation.

May cause an allergic skin reaction.

#### Precautionary statements

### Prevention:

Avoid breathing dust/mist/vapour/spray. Wear protective gloves and protective clothing. Wash thoroughly after handling. Keep in original container only.



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#### Response:

IF ON SKIN: Wash with plenty of water and soap. In case skin irritation occurs, seek medical attention. Contaminated clothing must be washed before reuse.

IF IN EYES: Rinse with caution with plenty of water for several minutes. In case contact lenses are worn remove and continue rinsing. If eye irritation persists seek medical attention.

Disposal: Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

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NFPA ratings (scale 0-4)

Health = 2
Fire = 1
Reactivity = 0

2 0 HEALTH 2

REACTIVITY 0

HMIS ratings (scale 0-4)

Health = 2 Fire = 1 Reactivity = 0

#### ■ Hazards not otherwise classified

None

#### Other hazards

Results of PBT and MPMB assessment.

PBT: not applicable ☑P☑B: not applicable

# 3. Composition/Information on ingredients

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Mixture of substances with methacrylate ester monomers.

C.A.S. No.	Component	% Wt
109-16-0	Dimethacrylate	2.5 – 10
1565-94-2	Dimetahcrylate	2.5 - 10
41637-38-1	Dimethacrylate	2.5 - 10
10287-53-3	Parbenate	<1

# 4. First aid measures

# Description of first aid measures

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Remove person to fresh air. Get medical attention if you feel unwell.

# ■ After contact with skin

Immediately flush with water and then wash with soap and water. In case skin irritation persists, get medical attention. Remove contaminated clothing and wash before reuse.

# M After contact with eyes

Rinse, opened eye, with copious amounts of water for at least 15 minutes. Remove contact lenses, if possible. Get medical attention.

### ■ After ingestion



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Flush mouth with water. Get medical attention immediately.

### ☑ Information for physician

Most important symptoms and effects, both acute and delayed: See Section 11.

Indication of any immediate medical attention and special treatment needed: Not applicable.

# 5. Fire-fighting measures

# Suitable extinguishing media

Water spray, foam, carbon dioxide, dry chemicals depending on the materials involved in the fire.

# Extinguishing media to avoid

None

### ☑ Special hazards arising from combustion

No relevant information is available for this product.

### ■ Special protective equipment for fire-fighters

A self-contained breathing apparatus.

# Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Ventilate area. Wear safety glasses, gloves and lab coat.

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Avoid release to the environment. Do not allow to enter sewers or ground water.

### Methods for cleaning up/collecting

Collect mechanically. The product may be absorbed by liquid-binding material (sand, diatomite, acid binders). Wash spill area with alcohol or water and soap.

# 7. Handling and storage

# Precautions for safe handling

Adequately trained personnel should handle this product. Do not eat, drink or smoke when using the product. Wash thoroughly after handling. Contaminated clothing should not be allowed out of the workplace and in any case it should be washed before reuse. Keep container tightly closed.

### Conditions for safe storage, including any incompatibilities

Store product in a cool and dry place. Keep in original container with the cap always tightly closed. Protect from exposure to light, heat and direct sunlight.

# 8. Exposure controls/personal protection

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#### Occupational exposure limits

In case a component is shown in section 3 but it does not appear in the table below, there are not any available data for this component.

C.A.S. No.	Component	Agency	Limit
CHILDING TION	Component	22501107	



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#### Personal protective equipment (PPE)

Ventilation: Ensure adequate ventilation of the premises where the product is stored and/or handled.

Respiratory protection: Not required.

Hand protection: Suitable protective gloves should be worn.

Eye protection: Safety glasses should be worn.

Skin protection: Do not eat, drink or smoke when using the product.

Other: Lab coat is suggested when using the product.

# 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance: Liquid Colour: Off-white Odour: Characteristic Odour threshold: Not available pH value Not available Not available Melting point: Not available Boiling point: Not available Flash point: No data available Evaporation rate: Flammability (solid, gas): Not applicable

Density: Approximately 1,3 g/cm<sup>3</sup>

Vapour pressure: Not applicable
Vapour density: Not applicable
Viscosity: Not determined
Solubility: Insoluble

Auto ignition: Product is not self igniting

Boiling point: Not applicable Viscosity: No data available

# 10. Stability and reactivity

#### ■ Reactivity

The product is considered to be non reactive under normal use conditions.

Stable under normal storage and handle conditions.

#### Mazardous decomposition products

None, if used in accordance with instructions.

# Conditions and/or materials to avoid

Avoid storing the product at extreme temperatures (>27 °C and <5 °C) and direct sunlight. Avoid reducing and oxidizing agents, peroxides and amines.

# Possibility of hazardous reactions

Hazardous polymerization will not occur.

# 11. Toxicological information



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It is required by the U.S. OSHA Hazard Communication Standard to include all the known hazards of the product or components included regardless the potential risk.

The risks of the hazards communicated in this document may vary depending on the potential of exposure.

# **Information on toxicological effects**

Inhalation: Not expected to be an inhalation hazard despite the characteristic odour that it may have. Skin contact: Mild Skin Irritation. Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction. Signs/symptoms may include redness, swelling, blistering, and itching. Eye contact: Moderate Eye Irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion: Gastrointestinal Irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

# **Additional toxicological information**

Carcinogenicity: -

#### Toxicological data:

In case a component is shown in section 3 but it does not appear in the table below, either there are not any available data for this component or the data are insufficient for classification.

Acute toxicity

Component	Route	Species	Value
_	Dermal	Professional	LD50 estimated >
Dimethacrylate	Dermai	judgement	5,000 mg/Kg
	Ingestion	Rat	LD50 > 10,837  mg/Kg
	Ingestion		LD50 estimated 2,000
Dimethacrylate	Ingestion		- 5,000 mg/Kg
Dimethaciyiate	Dermal	Professional	LD50 estimated 2,000
		judgement	- 5,000 mg/Kg
	Dermal	Professional	LD50 > 5,000  mg/Kg
Dimethacrylate	Dermai	judgement	
	Ingestion	Rat	LD50 > 2,000  mg/Kg
Parbenate	Dermal	Rat	LD50 > 2,000  mg/Kg
raibeliale	Ingestion	Rat	LD50 > 2,000  mg/Kg

#### Skin corrosion/irritation

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Component	Species	Value		
Dimethacrylate	Guinea pig	Mild irritation		
Parbenate	Rabbit	Not significant irritation		

Serious eye damage/Irritation

Component	Species	Value
Dimethacrylate	Professional judgment	Moderate irritation
Parbenate	Rabbit	Mild irritation

### Skin sensitization

Component	Species	Value
Dimethacrylate	Human and animal	Sensitizing
Dimethacrylate	Guinea pig	Sensitizing
Dimethacrylate	Guinea pig	Not sensitizing

# Respiratory sensitization:

Germ cell mutagenicity

Component	Route	Value
Dimethacrylate	In vitro	Some positive data exist but there



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		are insufficient for classification
Dimethacrylate	In vitro	Some positive data exist but there are insufficient for classification
Dimethacrylate	In vitro	Not mutagenic

# Carcinogenicity

In case a component is shown in section 3 but it does not appear in the table below, either there are not any available data for this component or the data are insufficient for classification.

Component	Route	Species	Value
Dimethacrylate	Dermal	Mouse	Not carcinogenic

# Reproduced toxicity:

In case a component is shown in section 3 but it does not appear in the table below, either there are not any available data for this component or the data are insufficient for classification.

Reproduced and/or development effects

Component	Route	Value	Species	Test Result	Exposure duration
Dimethacrylate	Ingestion	Not toxic to female reproduction	Mouse	NOAEL 1 mg/kg/d	1 generation
Dimethacrylate	Ingestion	Not toxic to male reproduction	Mouse	NOAEL 1 mg/kg/d	1 generation
Dimethacrylate	Ingestion	Not toxic to development	Mouse	NOAEL 1 mg/kg/d	1 generation
Dimethacrylate	Ingestion	Not toxic to female reproduction	Mouse	NOAEL 0.8 mg/kg/d	premating & during gestation
Dimethacrylate	Ingestion	Not toxic to male reproduction	Mouse	NOAEL 0.8 mg/kg/d	premating & during gestation
Dimethacrylate	Ingestion	Not toxic to development	Mouse	NOAEL 0.8 mg/kg/d	premating & during gestation

# Target organ(s):

In case a component is shown in section 3 but it does not appear in the table below, either there are not any available data for this component or the data are insufficient for classification.

# Specific target organ toxicity – single exposure

In case a component is shown in section 3 but it does not appear in the table below, either there are not any available data for this component or the data are insufficient for classification.

# Specific target organ toxicity - repeated exposure

In case a component is shown in section 3 but it does not appear here, there are not any available data for this component.

Component	Route	Target organ(s)	Value	Species	Test Result	Exposure duration
Dimethacrylate	Dermal	Kidney and/or bladder	Some positive data exist but there are insufficient for classification	Mouse	NOAEL 833 mg/kg/d	78 weeks
Dimethacrylate	Dermal	Blood	All data are negative	Mouse	NOAEL 833 mg/kg/d	78 weeks
Dimethacrylate	Ingestion	Endocrine system, liver, nervous system,	All data are negative	Mouse	NOAEL 0.8 mg/kg/d	premating & during gestation



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kidney and/or	
bladder	1

#### Aspiration hazard:

In case a component is shown in section 3 but it does not appear here, there are not any available data for this component.

# 12. Ecological information

If material is properly used and handled no ecological problems are to be anticipated.

Do not discard material into drains/sewers or aquatic environment as it may cause pH variations.

# 13. Disposal considerations

Polymerize prior disposal. Disposal must be carried out in accordance to the local and national regulations currently in force.

# 14. Transport information

UN-Number DOT, ADR, ADN, IMDG, IATA	None
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	None
Transport hazard class DOT, ADR, ADN, IMDG, IATA	None
Packing group DOT, ADR, IMDG, IATA	None

# 15. Regulatory information

The product is a medical device according to EC directive 93/42/EEC.

This product is classified as a medical device under US regulations and it has been reviewed by the US Food and Drug Administration (FDA).

# 16. Other information

### CAUTION: PRODUCT FOR PROFESSIONAL USE ONLY

The information provided above is based on our present knowledge and experience. This safety data sheet refers explicitly to the product indicated and comprises no guarantee of particular quality. Any use of this product in any way not indicated on this safety data sheet will be exclusively under the user's responsibility.