

Material Safety Data Sheet

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Revision Number: 7

1. Identification of Substance/Preparation and Company/Undertaking

Product Name: Assure Universal Bonding Resin
Manufacturer: Reliance Orthodontic Products, Inc., 1540 West Thorndale Ave, Itasca, IL 60143
Emergency Telephone: 630-773-4009 Fax: 630-250-7704

Authorized Representative: Emergo Europe, Molenstraat 15, 2513 BH The Hague, The Netherlands
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CE Administrator: Amtac Certification Services Ltd., Davey Avenue, Knowlhill, Milton Keynes, MK5 8NL, United Kingdom

2. Composition/Information on Ingredients

Ingredient	Concentration Range (%)	CAS Number	Symbol/Risk Classification	OSHA PEL (mg/m3)	ACGIH (mg/m3)	LD50 (mg/kg, rat/oral)
Biphenyl Dimethacrylate	<35	125086-31-9	Xi, R36/38-43	N/D	N/D	N/D
Hydroxyethyl methacrylate	<20	868-77-9	Xi; R43	N/D	N/D	5050
Acetone	<80	67-64-1	F, R11, Xi R36-66-67	2400	1187	5800

N/A = not applicable, N/D = not determined,

3. Hazards Identification

Flammable – Highly flammable. Irritant – Irritating to the eyes and skin. May cause sensitization by skin contact. Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness.

4. First-aid Measures

Inhalation: Provide fresh air and rest.
Skin Contact: Wash with soap and water.
Eye Contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical attention.
Ingestion: Drink two glasses of water or milk. Seek medical attention if a substantial amount has been ingested.

5. Fire-fighting Measures

Fire-fighting media: Dry chemical powder, foam or carbon dioxide.
Fire and explosion risks: Upon combustion, irritating gases may form.

6. Accidental Release Measures

Personal Precautions: Prevent skin/eye contact, Provide ventilation.
Environmental Precautions: Avoid ground water contamination.
Methods for Cleaning Up: Wipe with damp paper towels, Discard properly.

7. Handling and Storage

Avoid high light intensity >10000 lux, this product is used exclusively for dental purposes by trained personnel. Store in a cool, dry place (less than 25 Degrees C).

8. Exposure Controls/Personal Protection

Eye Protection: Use protective eyewear.
Hand Protection: Use protective gloves.
Respiratory Protection: Avoid prolonged breathing of vapors of uncured material.
Skin Protection: Use any necessary hygiene measures.

9. Physical / Chemical Properties

Appearance	Liquid	Vapor Pressure @ 20C/68F	182 mm/Hg
Color	Straw	Miscibility	N/A
Odor	Slight odor of Acetone	Vapor Density	2
Solubility (H2O, fat)	Miscible	pH	4.3- 4.5
Boiling Point / Range	>56 C / 133F	Evaporation Rate	14.2
Melting Point / Range	<0C / 32 F	Viscosity	N/A
Flash Point	-19 C / -2 F	Partition Coefficient	N/A
Conductivity	N/A	Autoflammability	N/A
Explosive Properties	N/A	Flammability	Flammable
Oxidizing Properties	N/A	Relative Density	N/A

10. Stability and Reactivity

Avoid high temperatures.

11. Toxicological Information

Eye Contact:	Irritates the eyes.
Skin Contact:	Irritates the skin.
Sensitization:	May cause allergic reaction on contact with the skin.
Other:	Repeated exposure may cause skin dryness or cracking. Vapors may cause drowsiness and dizziness.

12. Ecological Information

N/A

13. Disposal Considerations

Refer to any Community provisions relating to waste. In their absence, refer to National or Regional provisions relating to waste.

14. Transport Information

No special precautions.

15. Regulatory Information

Classification: Xi Irritant, F Flammable, R11 Highly flammable., R36 Irritating to eyes., R38 Irritating to skin., R43 May cause sensitization by skin contact. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapors may cause drowsiness and dizziness.

Safety: Refer to any applicable National laws' (2-)9-16-26. Keep out of reach of children. Keep container in a well ventilated place. Keep away from sources of ignition. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16. Other Information

NOTE: This information is believed to be correct as of the date of this MSDS. The manufacturer makes no representation as to the completeness or accuracy of this information and supplies it on the condition that the person receiving it will make their own determination as to its suitability for their purposes prior to use. In no event will the manufacturer be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information contained herein.