



| I – Identification of the Substance and of the Company | |
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| <p>SUPPLIER: RMO, Inc. 650 W. Colfax Ave. Denver, CO 80204 303-592-8200</p> <p>Emergency Information Chemtrec: 800-424-9300 Chemtrec International: 202-483-7616</p> <p><u>Product Grade / Name:</u> ETCHING LIQUID</p> | <p>Trade Name and Synonyms – Description: LC Etchbond S1, R-Chem-336, Self Etching Light Cure Dentin Bond</p> |

| II – Composition / Information on Ingredients | | |
|--|------------------|-------------------|
| <u>Common Name</u> | <u>(% by Wt)</u> | <u>CAS Number</u> |
| 2-Hydroxyethyl-methacrylate | NP | 868-77-9 |

| III – Hazards Identification | |
|-------------------------------------|--|
| Physical/Chemical Hazards: | Incompatibility with high temperatures and strong oxidizing agents. |
| Human Health Hazards: | Repeated contact with skin may cause irritation. |
| Environmental Hazards: | Not determined. |
| Effects and Symptoms | |
| Inhalation: | Not likely under normal use. |
| Skin Contact: | Repeated or prolonged use can lead to more severe symptoms such as severe skin reactions, symptoms may be delayed. |
| Eye Contact: | Mild irritant. |
| Potential Chronic Health Effects | Prolonged exposure to methacrylates can cause allergic reactions. |

| IV – First Aid Measures | |
|--------------------------------|--|
| Inhalation | Immediately seek fresh air. Open windows and/or doors to increase ventilation. Seek medical attention if unusual symptoms persist. |
| Skin Contact | Remove any contaminated clothing. If irritation occurs and product is on the skin, rinse thoroughly with water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately. |
| Eye Contact | Flush with copious amounts of water for at least 15 minutes. Seek medical attention. |
| Ingestion | Immediately drink plenty of water, induce vomiting, and seek medical advice if unusual symptoms persist. |

V – Fire Fighting Measures

Flash Point: No information

Extinguishing Media: Chemical foam, Carbon Dioxide (CO₂), Dry Chemical Powder, or water spray.

Special Fire Fighting Procedures: Use full protective clothing and self contained breathing apparatus. Thermal decomposition emits toxic fumes of oxides of phosphorus.

Unusual Fire and Explosion Hazards: Keep product away from excessive heat and fire. Take special precaution to not expose this product to electrostatic charges (sparks).

VI – Accidental Release Measures

Maximize ventilation by opening windows and doors. Do not directly inhale the vapors. Gloves and eye protection suggested. Cover with sodium carbonate and calcium hydroxide. Collect material. Place in an approved metal container.

VII – Handling and Storage

Store away from food and beverages. To be handled by qualified dental professionals. Store in a cool dry place at or below room temperature. Keep away from heat sources. Keep container dry. Keep in well ventilated area. Store away from excessive heat, sparks and flames.

VIII – Exposure Controls / Personal Protection

Respiratory Protections: Respiratory protection is recommended when using large amounts.

Protective Gloves: Recommended

Eye Protection: Safety glasses or splash goggles.

Skin and Body: Lab coat.

IX – Physical and Chemical Properties

Appearance: Liquid

Color: Clear

Odor: Characteristically

Boiling Point: No Data

Vapor Pressure (mmHg): No Data

Vapor Density (Air = 1): No Data

Solubility in Water: Soluble

Melting Point: No Data

Evaporation Rate: No Data

Density: 1.20 g/ cm³

X – Stability and ReactivityStability:

Unstable () Stable (X)

Incompatibility:

Excess heat, direct sunlight, amines, peroxi- compounds, polymerization initiators, acids, bases, oxidizing agents.

Hazardous Decomposition Products:

None reported

Hazardous Reactions:

None reported.

XI – Toxicological Information

Acute Oral Toxicity:

LD₅₀ = 5,564 mg/kg

Skin Irritation:

Irritation to skin can occur.

Eye Irritation:

Irritation to the eyes can occur.

Sensitization of product

Allergic reactions to methacrylates possible after frequent exposure.

XII – Ecological Information

May cause adverse environmental impact if material reaches waterways.

XIII – Disposal Considerations

Dispose of in accordance with Federal, State, and Local Regulations. Un-neutralized phosphoric acid, when discarded, is hazardous waste under Federal Resource Compensation Recovery Act (RCRA) Regulations.

XIV – Transportation Information

Not classified as a dangerous product

XV – Regulatory Information

Symbols of Danger:

R-Phrase:

36/38-43-36/37/38

S-Phrase:

26-36/37-28A-28

XVI – Other Information

Note: While the information and recommendations set forth on this data sheet are believed to be accurate as received from our suppliers, RMO, Inc. makes no warranty with respect thereto and disclaims all liability from reliance thereon.



| I – Identification of the Substance and of the Company | |
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| <p><u>Product Grade / Name:</u> ETCHING LIQUID</p> | |

| II – Composition / Information on Ingredients | | | |
|--|-----------------------------|------------------------|-------------------|
| | <u>Common Name</u> | <u>(% by Wt)</u> | <u>CAS Number</u> |
| Part A | 2-Hydroxyethyl-methacrylate | 1.20 g/cm ³ | 868-77-9 |
| Part B | Ethanol | 0.87 g/cm ³ | 64-17-5 |

| III – Hazards Identification | |
|-------------------------------------|--|
| Physical/Chemical Hazards: | Highly flammable. Irritant |
| Human Health Hazards: | Irritating to eyes and skin. May cause sensitization by skin contact.. |
| Environmental Hazards: | Do not allow to enter drains or groundwater. |
| Effects and Symptoms | |
| Inhalation: | Irritation may occur. |
| Skin Contact: | Repeated or prolonged use can lead to more severe symptoms such as severe skin reactions, symptoms may be delayed. |
| Eye Contact: | Mild irritant. |

IV – First Aid Measures

Inhalation: Immediately seek fresh air. Open windows and/or doors to increase ventilation. Seek medical attention if unusual symptoms persist.

Skin Contact: Remove any contaminated clothing. If irritation occurs and product is on the skin, rinse thoroughly with water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.

Eye Contact: Flush with copious amounts of water for at least 15 minutes. Seek medical attention.

Ingestion: Seek medical attention.

V – Fire Fighting Measures

Flash Point: No information

Extinguishing Media: Water, CO₂ Chemical foam, or Dry Chemical Powder.

Special Fire Fighting Procedures: Use full protective clothing and self contained breathing apparatus. Thermal decomposition emits toxic fumes of oxides of phosphorus.

Unusual Fire and Explosion Hazards: Keep product away from excessive heat and fire. Take special precaution to not expose this product to electrostatic charges (sparks).

VI – Accidental Release Measures

Maximize ventilation by opening windows and doors. Do not directly inhale the vapors. Gloves and eye protection suggested. If spilled, use liquid absorbent material. Collect material. Place in an approved container.

VII – Handling and Storage

Store away from food and beverages. To be handled by qualified dental professionals. Store in a cool dry place at room temperature. Keep away from heat sources. Keep containers closed. Take measure to prevent electrostatic charge. Keep in well ventilated area.

VIII – Exposure Controls / Personal Protection

Respiratory Protections: Respiratory protection is recommended when using large amounts.

Protective Gloves: Recommended

Eye Protection: Safety glasses or splash goggles.

Skin and Body: Lab coat.

IX – Physical and Chemical Properties

Appearance: Liquid
Color: Clear
Odor: Characteristically
Boiling Point: No Data
Vapor Pressure (mmHg): No Data
Vapor Density (Air = 1): No Data
Solubility in Water: Soluble
Melting Point: No Data
Evaporation Rate: No Data
Density: Part A - 1.20 g/ cm³
Part B – 0.87 g/ cm³

X – Stability and ReactivityStability:

Unstable () Stable (X)

Incompatibility:

Amines, peroxide compounds, polymerization, initiators, acids, bases, oxidizing agents.

Hazardous Decomposition Products:

None reported

Hazardous Reactions:

None reported.

XI – Toxicological Information

| | |
|--------------------------|---|
| Acute Oral Toxicity: | LD ₅₀ = 5,050 mg/kg |
| Skin Irritation: | Irritation to skin and skin sensitization can occur |
| Eye Irritation: | Strong irritant to the eyes can occur. |
| Inhalation: | Irritations to the mucous membranes |
| Ingestion: | Irritation of mucous membranes in the mouth |
| Sensitization of product | Allergic reactions to methacrylates possible after frequent exposure. |

XII – Ecological Information

May cause adverse environmental impact if material reaches waterways.

XIII – Disposal Considerations

Dispose of in accordance with Federal, State, and Local Regulations. Un-neutralized phosphoric acid, when discarded, is hazardous waste under Federal Resource Compensation Recovery Act (RCRA) Regulations.

XIV – Transportation Information

Not classified as a dangerous product

| XV – Regulatory Information | | | |
|------------------------------------|-----------------------------|--|------------------------------|
| | Common Name | R-Phrase: | S-Phrase |
| Part A | 2-Hydroxyethyl-methacrylate | 36/38-43-36/37/38 | 26-36/37-28A-28 |
| Part B | Ethanol | 11-10-36/37/38- 39/23/24/25-23/24/25- 68/20/21/22-20/21/22-52/53 | 16-7-36-26-45-36/37-61-24/25 |

| XVI – Other Information |
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