

## ***MATERIAL SAFETY DATA SHEET***

<b>TRADE NAME:</b>	<b>BOND LINK</b>
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**CHEMICAL NAME:** 2 Propanone

### **I. PHYSICAL DATA**

BOILING POINT (°C):	56.1
MELTING POINT:	NE
SPECIFIC GRAVITY (H <sub>2</sub> O=1):	0.79
VAPOR PRESSURE (20°C):	184mm Hg
VAPOR DENSITY (Air=1):	2.0
SOLUBILITY IN WATER:	100
EVAPORATION RATE (Butyl Acetate=1):	14
APPEARANCE AND ODOR:	Sweet pungent odor. Colorless liquid.

### **II. HAZARDOUS INGREDIENTS**

PRINCIPAL HAZARDOUS COMPONENTS	<u>TLV</u>	<u>PEL</u>
	NE	NE

### **III. FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT:	-17.7°C
FLAMMABLE LIMITS:	2-13%
EXTINGUISHING MEDIA:	CO <sub>2</sub> , water spray, dry chemicals
SPECIAL FIRE FIGHTING PROCEDURES:	Wear self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Extremely flammable.
LEL EXPLOSIVE LIMIT:	NE
VEL EXPLOSIVE LIMIT:	NE

**IV. HEALTH HAZARD DATA**

INHALATION:	Remove to fresh air.
EYES:	Flush eyes for 15 minutes with water and get prompt medical attention.
SKIN:	Wash with soap and water. If irritation persists, get medical attention.
INGESTION:	Consult physician immediately.
CARCINOGENICITY:	None known.

**V. REACTIVITY DATA**

STABILITY:	Stable.
INCOMPATIBILITY:	Acids, oxidizing materials.
HAZARDOUS DECOMPOSITION:	May liberate carbon monoxide.
HAZARDOUS POLYMERIZATION:	Will not occur.

**VI. SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:	Wipe with absorbent tissue.
WASTE DISPOSAL METHOD:	Dispose according to government regulations.

**EMERGENCY PHONE NUMBER: (805) 922-8491**

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**DEN-MAT CORPORATION, 2727 SKYWAY DRIVE, SANTA MARIA, CA 93455**

## ***MATERIAL SAFETY DATA SHEET***

<b>TRADE NAME:</b>	<b>ETCH 'N' SEAL</b>
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**CHEMICAL NAME:** Aluminum Oxalate Phosphoric Acid

**CHEMICAL FAMILY:** Organic Acid Salt

### **I. PHYSICAL DATA**

BOILING POINT (°C):	NE
MELTING POINT:	NE
SPECIFIC GRAVITY (H <sub>2</sub> O=1):	NE
VAPOR PRESSURE (20°C):	NE
SOLUBILITY IN WATER:	Soluble
EVAPORATION RATE (Butyl Acetate=1):	NE
APPEARANCE AND ODOR:	Clear Gel

### **II. FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT:	N/A
EXTINGUISHING MEDIA:	N/A
SPECIAL FIRE EXTINGUISHING PROCEDURES:	N/A
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Dangerous when heated to decomposition. Can emit toxic fumes.
LEL EXPLOSIVE LIMIT:	NE
VEL EXPLOSIVE LIMIT:	NE

**III. HEALTH HAZARDS AND FIRST AID PROCEDURES**

INHALATION:	N/A
SKIN:	Can cause burns. Remove clothing. Flush well with water.
EYES:	Flush with water for at least 15 minutes. Consult physician immediately.
INGESTION:	Do not induce vomiting. If conscious, take milk of magnesia. Consult physician immediately.
CARCINOGENICITY:	None known.

**IV. REACTIVITY DATA**

STABILITY:	Stable.
HAZARDOUS POLYMERIZATION:	Will not occur.
EFFECTS OF OVEREXPOSURE:	Violent muscular stimulation, convulsions and collapse. Acid can cause burns.
EMERGENCY FIRST AID:	Flush with water at least 15 minutes. Consult physician immediately.

**V. SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:	Absorb with absorbent material; flush area with water; highly toxic material.
WASTE DISPOSAL METHOD:	Dispose according to government regulations.

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## ***MATERIAL SAFETY DATA SHEET***

<b>TRADE NAME:</b>	<b>TENURE A &amp; B</b>
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**CHEMICAL NAME:** 2 Propanone

### **I. PHYSICAL DATA**

BOILING POINT (°C):	56.1
MELTING POINT:	NE
SPECIFIC GRAVITY (H <sub>2</sub> O=1):	0.79
VAPOR PRESSURE (20°C):	184mm Hg
VAPOR DENSITY (Air=1):	2.0
SOLUBILITY IN WATER:	100
EVAPORATION RATE (Butyl Acetate=1):	14
APPEARANCE AND ODOR:	Sweet pungent odor. Colorless liquid.

### **II. HAZARDOUS INGREDIENTS**

PRINCIPAL HAZARDOUS COMPONENTS	<u>TLV</u>	<u>PEL</u>
	NE	NE

### **III. FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT:	-17.7°C
FLAMMABLE LIMITS:	2-13%
EXTINGUISHING MEDIA:	CO <sub>2</sub> , water spray, dry chemicals
SPECIAL FIRE FIGHTING PROCEDURES:	Wear self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Extremely flammable.
LEL EXPLOSIVE LIMIT:	NE
VEL EXPLOSIVE LIMIT:	NE

### **IV. HEALTH HAZARD DATA**

INHALATION:	Remove to fresh air.
EYES:	Flush eyes for 15 minutes with water and get prompt medical attention.
SKIN:	Wash with soap and water. If irritation persists, get medical attention.
INGESTION:	Consult physician immediately.
CARCINOGENICITY:	None known.

#### V. REACTIVITY DATA

STABILITY:	Stable.
INCOMPATIBILITY:	Acids, oxidizing materials.
HAZARDOUS DECOMPOSITION:	May liberate carbon monoxide.
HAZARDOUS POLYMERIZATION:	Will not occur.

#### VI. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:	Wipe with absorbent tissue.
WASTE DISPOSAL METHOD:	Dispose according to government regulations.

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## ***MATERIAL SAFETY DATA SHEET***

<b>TRADE NAME:</b>	<b>ETCH 'N' SEAL</b>
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**CHEMICAL NAME:** Aluminum Oxalate Phosphoric Acid

**CHEMICAL FAMILY:** Organic Acid Salt

### **I. PHYSICAL DATA**

BOILING POINT (°C):	NE
MELTING POINT:	NE
SPECIFIC GRAVITY (H <sub>2</sub> O=1):	NE
VAPOR PRESSURE (20°C):	NE
SOLUBILITY IN WATER:	Soluble
EVAPORATION RATE (Butyl Acetate=1):	NE
APPEARANCE AND ODOR:	Clear Gel

### **II. FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT:	N/A
EXTINGUISHING MEDIA:	N/A
SPECIAL FIRE EXTINGUISHING PROCEDURES:	N/A
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Dangerous when heated to decomposition. Can emit toxic fumes.
LEL EXPLOSIVE LIMIT:	NE
VEL EXPLOSIVE LIMIT:	NE

**III. HEALTH HAZARDS AND FIRST AID PROCEDURES**

INHALATION:	N/A
SKIN:	Can cause burns. Remove clothing. Flush well with water.
EYES:	Flush with water for at least 15 minutes. Consult physician immediately.
INGESTION:	Do not induce vomiting. If conscious, take milk of magnesia. Consult physician immediately.
CARCINOGENICITY:	None known.

**IV. REACTIVITY DATA**

STABILITY:	Stable.
HAZARDOUS POLYMERIZATION:	Will not occur.
EFFECTS OF OVEREXPOSURE:	Violent muscular stimulation, convulsions and collapse. Acid can cause burns.
EMERGENCY FIRST AID:	Flush with water at least 15 minutes. Consult physician immediately.

**V. SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:	Absorb with absorbent material; flush area with water; highly toxic material.
WASTE DISPOSAL METHOD:	Dispose according to government regulations.

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## ***MATERIAL SAFETY DATA SHEET***

**TRADE NAME:**

**CORE PASTE CATALYST A**

**CHEMICAL NAME:** Glass Fillers in Methacrylate Resin

**CHEMICAL FAMILY:** Methacrylate

### **I. PHYSICAL DATA**

BOILING POINT, 760mm, Hg:	N/A
FREEZING POINT:	N/A
SPECIFIC GRAVITY (H <sub>2</sub> O=1):	2.08
VAPOR PRESSURE (20°C):	1mm Hg
VAPOR DENSITY (Air=1):	1
SOLUBILITY IN WATER:	Nil
PERCENT VOLATILES BY VOLUME:	Nil
EVAPORATION RATE (Butyl Acetate=1):	0.1
APPEARANCE AND ODOR:	Light, yellowish-tan paste

### **II. FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT:	NE
FLAMMABLE LIMITS:	NE
EXTINGUISHING MEDIA:	CO <sub>2</sub> , dry chemicals
SPECIAL FIRE EXTINGUISHING PROCEDURES:	N/A
UNUSUAL FIRE AND EXPLOSION HAZARDS:	N/A

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**III. HEALTH HAZARDS**

THRESHOLD LIMIT VALUE: None

EFFECTS OF OVEREXPOSURE: Irritant to eyes and skin

EMERGENCY AND FIRST AID: Eyes: Flush with water for 15 minutes. Consult physician.  
Skin: Wash with soap and water.

**IV. REACTIVITY DATA**

STABILITY: Stable

CONDITIONS TO AVOID: Heat and ignition

INCOMPATIBILITY: Contamination and heat

HAZARDOUS DECOMPOSITION: May form CO if burned

HAZARDOUS POLYMERIZATION: None

**V. SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Clean up with absorbent towel.

WASTE DISPOSAL METHOD: Dispose according to government regulations.

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## ***MATERIAL SAFETY DATA SHEET***

<b>TRADE NAME:</b>	<b>CORE PASTE B</b>
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**CHEMICAL NAME:** Glass Filled/Methacrylate Resin

**CHEMICAL FAMILY:** Glass Filled/Methacrylates

### **I. PHYSICAL DATA**

BOILING POINT, 760mm, Hg:	N/A
FREEZING POINT:	N/A
SPECIFIC GRAVITY (H <sub>2</sub> O=1):	2.1
VAPOR PRESSURE (20°C):	NE
VAPOR DENSITY (Air=1):	Less than 1
SOLUBILITY IN WATER:	Nil
PERCENT VOLATILES BY VOLUME:	NE
EVAPORATION RATE (Butyl Acetate=1):	NE
APPEARANCE AND ODOR:	White opaque paste

### **II. FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT:	NE
FLAMMABLE LIMITS:	NE
EXTINGUISHING MEDIA:	Dry chemicals, CO <sub>2</sub>
SPECIAL FIRE EXTINGUISHING PROCEDURES:	N/A
UNUSUAL FIRE AND EXPLOSION HAZARDS:	N/A

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### III. HEALTH HAZARDS

THRESHOLD LIMIT VALUE: None

EFFECTS OF OVEREXPOSURE: Irritant to eyes and skin

EMERGENCY AND FIRST AID: Eyes: Flush with water for 15 minutes. Consult physician.  
Skin: Wash with soap and water.

### IV. REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Heat and ignition

INCOMPATIBILITY: Contamination and heat

HAZARDOUS DECOMPOSITION: May form CO if burned

HAZARDOUS POLYMERIZATION: None

### V. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Clean up with absorbent towel.

WASTE DISPOSAL METHOD: Dispose according to government regulations.

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## ***MATERIAL SAFETY DATA SHEET***

<b>TRADE NAME:</b>	<b>TENURE A &amp; B</b>
--------------------	-------------------------

**CHEMICAL NAME:** 2 Propanone

### **I. PHYSICAL DATA**

BOILING POINT (°C):	56.1
MELTING POINT:	NE
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SOLUBILITY IN WATER:	100
EVAPORATION RATE (Butyl Acetate=1):	14
APPEARANCE AND ODOR:	Sweet pungent odor. Colorless liquid.

### **II. HAZARDOUS INGREDIENTS**

PRINCIPAL HAZARDOUS COMPONENTS	<u>TLV</u>	<u>PEL</u>
	NE	NE

### **III. FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT:	-17.7°C
FLAMMABLE LIMITS:	2-13%
EXTINGUISHING MEDIA:	CO <sub>2</sub> , water spray, dry chemicals
SPECIAL FIRE FIGHTING PROCEDURES:	Wear self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Extremely flammable.
LEL EXPLOSIVE LIMIT:	NE
VEL EXPLOSIVE LIMIT:	NE

### **IV. HEALTH HAZARD DATA**

INHALATION:	Remove to fresh air.
EYES:	Flush eyes for 15 minutes with water and get prompt medical attention.
SKIN:	Wash with soap and water. If irritation persists, get medical attention.
INGESTION:	Consult physician immediately.
CARCINOGENICITY:	None known.

#### V. **REACTIVITY DATA**

STABILITY:	Stable.
INCOMPATIBILITY:	Acids, oxidizing materials.
HAZARDOUS DECOMPOSITION:	May liberate carbon monoxide.
HAZARDOUS POLYMERIZATION:	Will not occur.

#### VI. **SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:	Wipe with absorbent tissue.
WASTE DISPOSAL METHOD:	Dispose according to government regulations.

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