

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

072679181

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

072675544

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

071323492 072679173



# SAFETY DATA SHEET

Issuing Date 15-Apr-2015

Revision Date 15-Apr-2015

ECR# 23477

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

Product Name UltraBond Plus - All Shades

### Other means of identification

Synonyms None

Product Type Paste

### Recommended use of the chemical and restrictions on use

Recommended Use Professional dental restorative

Uses advised against No information available

### Supplier's details

Supplier Address  
DenMat  
1017 W. Central Ave.  
Lompoc, CA 93436  
TEL: 805-346-3700

### Emergency telephone number

Emergency Telephone Number 805-346-3700

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Skin Sensitizer	Category 1B
Skin Corrosion/Irritation	Category 2

### GHS Label elements, including precautionary statements

### Emergency Overview

Signal Word : Warning

## **Hazard Statements**

### **Hazard Statements**

- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation

## **Precautionary Statements**

- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation
- P261 - Avoid breathing vapors.
- P264 - Wash hands and forearms thoroughly after handling.
- P272 - Contaminated work clothing should not be allowed out of the workplace.
- P280 - Wear eye protection, protective gloves.
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 - If eye irritation persists: Get medical advice/attention.
- P362 - Take off contaminated clothing and wash before reuse.
- P501 - Dispose of contents/container according to local, regional, national, and international regulations.

**Appearance** Various colors**Physical State** Paste**Odor** slight ester/sweet smell**Prevention**

- Wash face, hands and any exposed skin thoroughly after handling.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Keep container tightly closed.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Keep cool

**General Advice**

None

**Eyes**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- IF eye irritation persists: Get medical advice/attention

**Skin**

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

**Inhalation**

- If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or doctor/physician if you feel unwell

**Fire**

- In case of fire: Use CO2, dry chemical, or foam for extinction

**Storage**

- Store locked up.

**Disposal**

- Dispose of contents/container to an approved waste disposal plant.

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

Aspiration hazard if swallowed - can enter lungs and cause damage  
Harmful to aquatic life

<5% of the mixture consists of ingredient(s) of unknown toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
urethane dimethacrylate	72869-86-4	25 - 35	*
silica	68611-44-9	25 - 35	*
triethylene glycol dimethacrylate	109-16-0	5 - 10	*
2-(2' hydroxy-5'-octylphenyl) benzotriazole	3147-75-9	1 - 5	*
di hydroxyethyl p toluidine	3077-12-1	0.1 - 0.5	*
benzoyl peroxide	94-36-0	0.1 - 0.5	*
ethyl 4-dimethylaminobenzoate	10287-53-3	0.01 - 0.2	*
camphorquinone	10373-78-1	0.01 - 0.2	*
butylated hydroxytoluene	128-37-0	0.01 - 0.2	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### Description of necessary first-aid measures

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.
<b>Skin Contact</b>	Wash off with warm water and soap. Consult a physician if necessary.
<b>Inhalation</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If feeling unwell, seek medical attention.
<b>Ingestion</b>	Rinse oral cavity with copious water. If feeling unwell, call a physician or Poison Control Center immediately.

#### Most important symptoms/effects, acute and delayed

**Most Important Symptoms/Effects** Mild skin irritation

#### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to Physician** Not Applicable

### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** None

#### Specific Hazards Arising from the Chemical

None

#### Explosion Data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

#### Protective Equipment and Precautions for Firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight from a protected location or safe distance.

### 6. ACCIDENTAL RELEASE MEASURES

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

**Personal Precautions** Ensure adequate ventilation. Avoid breathing vapors or mists.  
Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

**Environmental Precautions**

Avoid release to the environment. Dispose of contents/container to an approved waste disposal plant. See Section 12 for additional Ecological Information.

**Methods and materials for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Pick up and transfer to properly labeled containers.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Handling** Ensure adequate ventilation. Avoid breathing vapors. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and away from direct sunlight.

**Incompatible Products** Strong acids. Strong oxidizing agents.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters**

**Occupational Exposure Limits** None Established

**Appropriate engineering controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Safety glasses with side-shields. Tightly fitting safety goggles.  
**Skin and Body Protection** Long sleeved clothing. Impervious gloves.  
**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Solid (paste)	<b>Appearance</b>	Various colors
<b>Odor</b>	Minimal; Ester/sweet	<b>Odor Threshold</b>	No information available
<b>Property</b>	<b>Values</b>	<b>Remarks/ - Method</b>	
pH	Not Applicable		
Melting Point/Range	Not Applicable		
Boiling Point/Range	Not Applicable		
Flash Point	Not Applicable		
Evaporation rate	Not Applicable		
Flammability (solid, gas)	No data available		
Flammability Limits in Air			
upper flammability limit	No data available		
lower flammability limit	No data available		
Vapor Pressure	No data available	None known	
Vapor Density	Not Applicable	None known	
Specific Gravity	1.8-1.9 @ 25°C		
Water Solubility	Insoluble	None known	
Solubility in other solvents	Partially soluble in acetone and ethanol	None known	

### Information on basic physical and chemical properties

Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	High viscosity	
Flammable Properties	Not flammable	
Explosive Properties	No data available	
Oxidizing Properties	No data available	

### Other information

VOC Content (%)	None
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## 10. STABILITY AND REACTIVITY

### Reactivity

No dangerous reaction known under conditions of normal use.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal conditions.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to avoid

Ignitions sources - heat, sparks and open flames.

### Incompatible materials

Strong acids. Strong oxidizing agents.

### Hazardous decomposition products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Product Information</b>	The product itself has not been tested. Data is for major component in product.
<b>Inhalation</b>	May cause drowsiness and dizziness based on components. May cause irritation of respiratory tract.
<b>Eye Contact</b>	Irritating to eyes.
<b>Skin Contact</b>	May cause skin irritation and/or dermatitis.
<b>Ingestion</b>	Potential for aspiration if swallowed. Vomiting may aspirate into lungs and cause chemical pneumonia.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Symptoms</b>	May cause drowsiness and dizziness. Eye contact with liquid may cause irritation including stinging, burning, tearing, or reddening of the eyes.
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### Delayed and immediate effects and also chronic effects from short and long term exposure

<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	No information Available.

### **Acute Toxicity**

Chemical Name	Result	Species	Dose
urethane dimethacrylate	LD 50 Oral	Rat	>5000 mg/kg
triethylene glycol dimethacrylate	LD 50 Oral	Rat	10837 mg/kg

<b>Reproductive Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects</b>	Respiratory system.
<b>Aspiration Hazard</b>	Based on product level data, this product does not meet the requirement to be classified as an aspiration hazard. However, this product contains an ingredient that may cause aspiration if swallowed.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
urethane dimethacrylate 934705-15-4	EC50 72 h 0.68mg/l	Not Established	EC50 24 h 1.2 mg/l
Triethylene glycol dimethacrylate 109-16-0	Not established	Not established	Not established

<b>Persistence and Degradability</b>	No information available.
<b>Bioaccumulation</b>	No information available.

### Other Adverse Effects

No information available.



**13. DISPOSAL CONSIDERATIONS****Waste Disposal Methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging**

Do not re-use empty containers.

**14. TRANSPORT INFORMATION****DOT**

UN-Number

Not Regulated

Proper shipping name

Hazard Class

Packing Group

Description

Emergency Response Guide

Number

## 15. REGULATORY INFORMATION

### International Inventories

#### **TSCA**

All components of this product are either listed or are exempt on the TSCA inventory.

### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

### U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### U.S. State Regulations

#### California Proposition 65

None of the components are listed

### U.S. State Right-to-Know Regulations

Massachusetts	The following components are listed: Amorphous silica
New York	None of the components are listed
New Jersey	Fluorides; barium compounds
Pennsylvania	Barium compounds; silica

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. OTHER INFORMATION

<b><u>NFPA</u></b>	<b>Health Hazard 1</b>	<b>Flammability 0</b>	<b>Instability 0</b>	<b>Physical and Chemical Hazards -</b>
<b><u>HMIS</u></b>	<b>Health Hazard 1</b>	<b>Flammability 0</b>	<b>Physical Hazard 0</b>	<b>Personal Protection X</b>

Issuing Date 15-Apr-2015  
Revision Date 15-Apr-2015

**General Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**



# SAFETY DATA SHEET

Issuing Date 15-Apr-2015

Revision Date 15-Apr-2015

ECR# 23477

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

Product Name Try-In Paste, all shades

### Other means of identification

Synonyms None

Product Type Paste

### Recommended use of the chemical and restrictions on use

Recommended Use Professional dental product

Uses advised against No information available

### Supplier's details

Supplier Address  
DenMat  
1017 W. Central Ave.  
Lompoc, CA 93436  
TEL: 805-346-3700

### Emergency telephone number

Emergency Telephone Number 805-346-3700

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Skin Sensitizer	Category 1B
Skin Corrosion/Irritation	Category 2

### GHS Label elements, including precautionary statements

### Emergency Overview

#### Signal Word Hazard Statements

Signal Word: Warning  
Hazard Statements  
• Causes serious eye irritation  
• May cause respiratory irritation.



**Appearance** Tooth colored paste      **Physical State** Paste      **Odor** slight ester/sweet smell

### Precautionary Statements

#### Prevention

- Wash face, hands and any exposed skin thoroughly after handling.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Keep container tightly closed.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Keep cool

#### General Advice

None

#### Eyes

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- IF eye irritation persists: Get medical advice/attention

#### Skin

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

#### Inhalation

- If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or doctor/physician if you feel unwell

#### Fire

- In case of fire: Use CO2, dry chemical, or foam for extinction

#### Storage

- Store locked up.

#### Disposal

- Dispose of contents/container to an approved waste disposal plant.

### Hazard Not Otherwise Classified (HNOC)

Not applicable

### Other information

Aspiration hazard if swallowed - can enter lungs and cause damage  
Harmful to aquatic life

<5% of the mixture consists of ingredient(s) of unknown toxicity.

Chemical Name	CAS-No	Weight %	Trade secret
ethoxylated bis-phenol-A dimethacrylate	41637-38-1	45-55	*
triethylene glycol dimethacrylate	109-16-0	10-15	*
silica	68611-44-9	10-15	*
ethyl 4-dimethylaminobenzoate	10287-53-3	0.001 - 0.005	*
2-(2' hydroxy-5'-octylphenyl) benzotriazole	3147-75-9	0-0.5	*
butylated hydroxytoluene	128-37-0	0-0.01	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

##### Description of necessary first-aid measures

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.
<b>Skin Contact</b>	Wash off with warm water and soap. Consult a physician if necessary.
<b>Inhalation</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If feeling unwell, seek medical attention.
<b>Ingestion</b>	Rinse oral cavity with copious water. If feeling unwell, call a physician or Poison Control Center immediately.

##### Most important symptoms/effects, acute and delayed

<b>Most Important Symptoms/Effects</b>	Mild skin irritation
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##### Indication of immediate medical attention and special treatment needed, if necessary

<b>Notes to Physician</b>	Not Applicable
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#### 5. FIRE-FIGHTING MEASURES

##### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** None

##### Specific Hazards Arising from the Chemical

None

##### Explosion Data

<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.

##### Protective Equipment and Precautions for Firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight from a protected location or safe distance.

#### 6. ACCIDENTAL RELEASE MEASURES

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

<b>Personal Precautions</b>	Ensure adequate ventilation. Avoid breathing vapors or mists. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.
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##### Environmental Precautions

**Environmental Precautions**

Avoid release to the environment. Dispose of contents/container to an approved waste disposal plant. See Section 12 for additional Ecological Information.

**Methods and materials for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Pick up and transfer to properly labeled containers.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Handling** Ensure adequate ventilation. Avoid breathing vapors. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and away from direct sunlight.

**Incompatible Products** Strong acids. Strong oxidizing agents.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters**

**Occupational Exposure Limits** None Established

**Appropriate engineering controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Safety glasses with side-shields. Tightly fitting safety goggles.  
**Skin and Body Protection** Long sleeved clothing. Impervious gloves.  
**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Solid (paste)	<b>Appearance</b>	Tooth Colored.
<b>Odor</b>	Minimal; Ester/sweet	<b>Odor Threshold</b>	No information available
<b>Property</b>	<b>Values</b>	<b>Remarks/ - Method</b>	
pH	Not Applicable		
Melting Point/Range	Not Applicable		
Boiling Point/Range	Not Applicable		
Flash Point	Not Applicable		
Evaporation rate	Not Applicable		
Flammability (solid, gas)	No data available		
Flammability Limits in Air			
upper flammability limit	No data available		
lower flammability limit	No data available		
Vapor Pressure	No data available	None known	
Vapor Density	Not Applicable	None known	
Specific Gravity	1.75-1.85 @ 25°C		
Water Solubility	Insoluble	None known	
Solubility in other solvents	Partially soluble in acetone and ethanol	None known	

### Information on basic physical and chemical properties

Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	Medium viscosity	
Flammable Properties	Not flammable	
Explosive Properties	No data available	
Oxidizing Properties	No data available	

### Other information

VOC Content (%)	None
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## 10. STABILITY AND REACTIVITY

### Reactivity

No dangerous reaction known under conditions of normal use.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal conditions.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to avoid

Ignitions sources - heat, sparks and open flames.

### Incompatible materials

Strong acids. Strong oxidizing agents.

### Hazardous decomposition products

None known based on information supplied.



## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Product Information</b>	The product itself has not been tested. Data is for major component in product.
<b>Inhalation</b>	May cause drowsiness and dizziness based on components. May cause irritation of respiratory tract.
<b>Eye Contact</b>	Irritating to eyes.
<b>Skin Contact</b>	May cause skin irritation and/or dermatitis.
<b>Ingestion</b>	Potential for aspiration if swallowed. Vomiting may aspirate into lungs and cause chemical pneumonia.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Symptoms</b>	May cause drowsiness and dizziness. Eye contact with liquid may cause irritation including stinging, burning, tearing, or reddening of the eyes.
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### Delayed and immediate effects and also chronic effects from short and long term exposure

<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	No information Available.

### **Acute Toxicity**

Chemical Name	Result	Species	Dose
ethoxylated bis-phenol-A	LD 50 Oral	Rat	>2000 mg/kg
triethylene glycol dimethacrylate	LD 50 Oral	Rat	10837 mg/kg

<b>Reproductive Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects</b>	Respiratory system.
<b>Aspiration Hazard</b>	Based on product level data, this product does not meet the requirement to be classified as an aspiration hazard. However, this product contains an ingredient that may cause aspiration if swallowed.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
ethoxylated bis-phenol-A dimethacrylate 41637-38-1	EC50 48h >100 mg/l OECD Guideline 201	LD50 96h >100 mg/l OECD Guideline 203	EC50 48h >100 mg/l OECD Guideline 202
Triethylene glycol dimethacrylate 109-16-0	Not established	Not established	Not established

<b>Persistence and Degradability</b>	No information available.
<b>Bioaccumulation</b>	No information available.

### Other Adverse Effects

No information available.

**13. DISPOSAL CONSIDERATIONS****Waste Disposal Methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging**

Do not re-use empty containers.

**14. TRANSPORT INFORMATION****DOT**

UN-Number	Not Regulated
Proper shipping name	
Hazard Class	
Packing Group	
Description	
Emergency Response Guide Number	

**TDG**

UN-Number	Not Regulated
Proper Shipping Name	.
Hazard Class	
Packing Group	
Description	

**MEX**

UN-Number	Not Regulated
Proper Shipping Name	
Hazard Class	
Packing Group	
Description	

**IATA**

UN-Number	Not Regulated
Proper Shipping Name	.
Hazard Class	
Packing Group	
ERG Code	
Description	

**IMDG/IMO**

UN-Number	Not Regulated
Proper Shipping Name	
Hazard Class	
Packing Group	

## 15. REGULATORY INFORMATION

### International Inventories

#### **TSCA**

All components of this product are either listed or are exempt on the TSCA inventory.

### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

### U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### U.S. State Regulations

#### California Proposition 65

None of the components are listed

### U.S. State Right-to-Know Regulations

Massachusetts	The following components are listed: Amorphous silica
New York	None of the components are listed
New Jersey	Fluorides; barium compounds
Pennsylvania	Barium compounds; silica

### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

## 16. OTHER INFORMATION

<b><u>NFPA</u></b>	<b>Health Hazard</b> 1	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Physical and Chemical Hazards -</b>
<b><u>HMIS</u></b>	<b>Health Hazard</b> 1	<b>Flammability</b> 0	<b>Physical Hazard</b> 0	<b>Personal Protection</b> X

Issuing Date 15-Apr-2015  
Revision Date 15-Apr-2015

**General Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**



# SAFETY DATA SHEET

Issuing Date 17-Apr-2015

Revision Date 17-Apr-2015

ECR# 23488

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

Product Name Ceri-Prime

### Other means of identification

UN-Number UN1120

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use Professional Dental Porcelain Primer

Uses advised against No information available

### Supplier's details

#### Supplier Address

DenMat  
1017 W. Central Ave.  
Lompoc, CA 93436  
TEL: 805-346-3700

### Emergency telephone number

Emergency Telephone Number 805-346-3700

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation	Category 2
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3
Flammable liquids	Category 2

### GHS Label elements, including precautionary statements

### Emergency Overview

Signal Word Danger

#### Hazard Statements

Signal Word

Hazard Statements

- Causes serious eye irritation
- May cause drowsiness or dizziness
- Highly flammable liquid and vapor.

**Appearance** Clear to light yellow**Physical State** Liquid.**Odor** Aromatic solvent/pungent**Precautionary Statements****Prevention**

- Wash face, hands and any exposed skin thoroughly after handling.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Keep away from heat/sparks/open flames/hot surfaces - No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Keep cool

**General Advice**

None

**Eyes**

- IF IN EYES: Rinse Cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- IF eye irritation persists: Get medical advice/attention

**Skin**

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

**Inhalation**

- If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or doctor/physician if you feel unwell

**Fire**

- In case of fire: Use CO2, dry chemical, or foam for extinction

**Storage**

- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.

**Disposal**

- Dispose of contents/container to an approved waste disposal plant.

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

Aspiration hazard if swallowed - can enter lungs and cause damage  
Harmful to aquatic life

<5% of the mixture consists of ingredient(s) of unknown toxicity.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %	Trade secret
organosilane ester	proprietary	20-30	*
ethoxylated bis-phenol-A dimethacrylate	41637-38-1	5-10	*
n-butanol	71-36-3	60 -70	*
triethylene glycol dimethacrylate	109-16-0	1-5	*
ethyl 4-dimethylaminobenzoate	10287-53-3	0.1 - 1	*
2-(2' hydroxy-5'-octylphenyl) benzotriazole	3147-75-9	0.1 - 1	*
di hydroxyethyl p toluidine	3077-12-1	0.01 – 0.1	*
camphorquinone	10373-78-1	0.01 – 0.1	*
Gamma-Glycidoxypopyltrimethoxysilane	2530-83-8	1-5	*
Gamma-Methacryloxypropyltrimethoxysilane	2530-85-0	1-5	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

##### Description of necessary first-aid measures

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.
<b>Skin Contact</b>	Wash off with warm water and soap. Consult a physician if necessary.
<b>Inhalation</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Seek immediate medical attention/advice.
<b>Ingestion</b>	Do NOT induce vomiting. Aspiration hazard if swallowed - can enter lungs and cause damage. Call a physician or Poison Control Center immediately.

##### Most important symptoms/effects, acute and delayed

**Most Important Symptoms/Effects** Dizziness. Drowsiness.

##### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to Physician** Condition of the patient should be carefully monitored. Aspiration of this product during induced emesis can result in lung injury. If evacuation of stomach contents is considered necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a Poison Control Center for additional treatment information.

#### 5. FIRE-FIGHTING MEASURES

##### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** CAUTION: Use of water spray when fighting fire may be inefficient.

##### Specific Hazards Arising from the Chemical

Extremely flammable.

##### Explosion Data

<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	Yes.

##### Protective Equipment and Precautions for Firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight from a protected location or safe distance.

#### 6. ACCIDENTAL RELEASE MEASURES

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

**Personal Precautions** Ensure adequate ventilation. Avoid breathing vapors or mists. Remove all sources of ignition. Take precautionary measures against static discharges. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

**Environmental Precautions****Environmental Precautions**

Avoid release to the environment. Dispose of contents/container to an approved waste disposal plant. See Section 12 for additional Ecological Information.

**Methods and materials for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Pick up and transfer to properly labeled containers.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Handling** Ensure adequate ventilation. Avoid breathing vapors. Keep away from open flames, hot surfaces and sources of ignition. Ground and bond all lines and equipment associated with product system. All equipment should be non-sparking and explosion proof. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Products** Strong acids. Strong oxidizing agents.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
n-butanol 71-36-3	TWA:20 ppm	100 ppm 300 mg/m <sup>3</sup>	50 ppm Ceiling 150 mg/m <sup>3</sup> Ceiling

**Appropriate engineering controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Safety glasses with side-shields. Tightly fitting safety goggles.  
**Skin and Body Protection** Long sleeved clothing. Impervious gloves.  
**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.



**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid	<b>Appearance</b>	Clear to light yellow.
<b>Odor</b>	Aromatic solvent	<b>Odor Threshold</b>	No information available
<b>Property</b>	<b>Values</b>	<b>Remarks/ - Method</b>	
pH	N/A	None known	
Melting Point/Range	Not determined	None known	
Boiling Point/Range	140 °C		
Flash Point	70 °C		
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limits in Air			
upper flammability limit	No data available		
lower flammability limit	No data available		
Vapor Pressure	3 mm Hg		
Vapor Density	2.1		
Specific Gravity	0.90 @ 25°C	None known	
Water Solubility	Minimal		
Solubility in other solvents	100% soluble in acetone and ethanol	None known	

### Information on basic physical and chemical properties

Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	Similar to water	
Flammable Properties	Flammable	
Explosive Properties	No data available	
Oxidizing Properties	No data available	

### Other information

VOC Content (%)	60%
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## 10. STABILITY AND REACTIVITY

### Reactivity

No dangerous reaction known under conditions of normal use.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to avoid

Ignitions sources - heat, sparks and open flames.

### Incompatible materials

Strong acids. Strong oxidizing agents.

### Hazardous decomposition products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Product Information</b>	The product itself has not been tested. Data is for major component in product.
<b>Inhalation</b>	May cause drowsiness and dizziness based on components. May cause irritation of respiratory tract.
<b>Eye Contact</b>	Irritating to eyes.
<b>Skin Contact</b>	May cause skin irritation and/or dermatitis.
<b>Ingestion</b>	Potential for aspiration if swallowed. Vomiting may aspirate into lungs and cause chemical pneumonia.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Symptoms</b>	May cause drowsiness and dizziness. Eye contact with liquid may cause irritation including stinging, burning, tearing, or reddening of the eyes.
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### Delayed and immediate effects and also chronic effects from short and long term exposure

<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	Ethanol has been shown to be carcinogenic in long-term studies only when consumed and abused as an alcoholic beverage.
<b>Reproductive Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects</b>	Eyes. Respiratory system.
<b>Aspiration Hazard</b>	Based on product level data, this product does not meet the requirement to be classified as an aspiration hazard. However, this product contains an ingredient that may cause aspiration if swallowed.

### Numerical measures of toxicity - Product

**Acute Toxicity** <10% of the mixture consists of ingredient(s) of unknown toxicity.

*The following values are calculated based on chapter 3.1 of the GHS document:*

**LD50 Oral** Not established

**Inhalation**  
**dust/mist** Not established

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
n- Butanol 71-36-3	500 mg/L EC50 Desmodesmus subspicatus 72h 500 mg/L EC50 Desmodesmus subspicatus 96 h	100000-500000 µg/L LC50 Lepomis macrochirus 96 h static 1 1730-1910 mg/L LC50 Pimephales promelas 96 h static 1 1740 mg/L LC50 Pimephales promelas 96 h flow-through 1	N/A	1897 - 2072 mg/L EC50 Daphnia magna 48 h 1983 mg/L EC50 Daphnia magna 48 h

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

### Other Adverse Effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise

comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging**

Do not re-use empty containers.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
N Butyl alcohol 71-36-3	None	None	None	U031 ignitable waste

**14. TRANSPORT INFORMATION****DOT**

UN-Number	UN1120
Proper shipping name	Flammable liquids, n.o.s.
Hazard Class	3
Packing Group	II
Description	UN1120, Flammable liquids, n.o.s. (butanols), 3, II

**15. REGULATORY INFORMATION****International Inventories****TSCA**

All components of this product are either listed or are exempt on the TSCA inventory.

**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**15. REGULATORY INFORMATION****Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations****California Proposition 65**

Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

**U.S. State Right-to-Know Regulations****U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	Health Hazard 2	Flammability 2	Instability 0	Physical and Chemical Hazards -
<b><u>HMIS</u></b>	Health Hazard 2	Flammability 2	Physical Hazard 0	Personal Protection X

**General Disclaimer**

Issuing Date 17-Apr-2015  
Revision Date 17-Apr-2015

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**



# SAFETY DATA SHEET

Issuing Date 28 May-2015

Revision Date 28 May-2015

ECR# 23578

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

**Product Name** UltraBond, shades A1, B0, B1 Neutral, Supreme White

### Other means of identification

**Synonyms** None

**Product Type** Paste

### Recommended use of the chemical and restrictions on use

**Recommended Use** Professional dental restorative

**Uses advised against** No information available

### Supplier's details

**Supplier Address**  
DenMat  
1017 W. Central Ave.  
Lompoc, CA 93436  
TEL: 805-346-3700

### Emergency telephone number

**Emergency Telephone Number** 805-346-3700

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Skin Sensitizer	Category 1B
Skin Corrosion/Irritation	Category 2

### GHS Label elements, including precautionary statements

### Emergency Overview

**Signal Word** : Warning

## **Hazard Statements**

### **Hazard Statements**

- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation

## **Precautionary Statements**

- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation
- P261 - Avoid breathing vapors.
- P264 - Wash hands and forearms thoroughly after handling.
- P272 - Contaminated work clothing should not be allowed out of the workplace.
- P280 - Wear eye protection, protective gloves.
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 - If eye irritation persists: Get medical advice/attention.
- P362 - Take off contaminated clothing and wash before reuse.
- P501 - Dispose of contents/container according to local, regional, national, and international regulations.

**Appearance** Various colors**Physical State** Paste **Odor** slight ester/sweet smell**Prevention**

- Wash face, hands and any exposed skin thoroughly after handling.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Keep container tightly closed.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Keep cool

**General Advice**

None

**Eyes**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- IF eye irritation persists: Get medical advice/attention

**Skin**

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

**Inhalation**

- If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or doctor/physician if you feel unwell

**Fire**

- In case of fire: Use CO2, dry chemical, or foam for extinction

**Storage**

- Store locked up.

**Disposal**

- Dispose of contents/container to an approved waste disposal plant.

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

Aspiration hazard if swallowed - can enter lungs and cause damage  
Harmful to aquatic life

<5% of the mixture consists of ingredient(s) of unknown toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
urethane dimethacrylate	72869-86-4	25 - 35	*
silica	68611-44-9	25 - 35	*
triethylene glycol dimethacrylate	109-16-0	5 - 10	*
2-(2' hydroxy-5'-octylphenyl) benzotriazole	3147-75-9	1 - 5	*
di hydroxyethyl p toluidine	3077-12-1	0.1 - 0.5	*
benzoyl peroxide	94-36-0	0.1 - 0.5	*
ethyl 4-dimethylaminobenzoate	10287-53-3	0.01 - 0.2	*
camphorquinone	10373-78-1	0.01 - 0.2	*
butylated hydroxytoluene	128-37-0	0.01 - 0.2	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### Description of necessary first-aid measures

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.
<b>Skin Contact</b>	Wash off with warm water and soap. Consult a physician if necessary.
<b>Inhalation</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If feeling unwell, seek medical attention.
<b>Ingestion</b>	Rinse oral cavity with copious water. If feeling unwell, call a physician or Poison Control Center immediately.

#### Most important symptoms/effects, acute and delayed

<b>Most Important Symptoms/Effects</b>	Mild skin irritation
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#### Indication of immediate medical attention and special treatment needed, if necessary

<b>Notes to Physician</b>	Not Applicable
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### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** None

#### Specific Hazards Arising from the Chemical

None

#### Explosion Data

<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.

#### Protective Equipment and Precautions for Firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight from a protected location or safe distance.

### 6. ACCIDENTAL RELEASE MEASURES

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

<b>Personal Precautions</b>	Ensure adequate ventilation. Avoid breathing vapors or mists. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.
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**Environmental Precautions**

Avoid release to the environment. Dispose of contents/container to an approved waste disposal plant. See Section 12 for additional Ecological Information.

**Methods and materials for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Pick up and transfer to properly labeled containers.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Handling** Ensure adequate ventilation. Avoid breathing vapors. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and away from direct sunlight.

**Incompatible Products** Strong acids. Strong oxidizing agents.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters**

**Occupational Exposure Limits** None Established

**Appropriate engineering controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Safety glasses with side-shields. Tightly fitting safety goggles.  
**Skin and Body Protection** Long sleeved clothing. Impervious gloves.  
**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Solid (paste)	<b>Appearance</b>	Various colors
<b>Odor</b>	Minimal; Ester/sweet	<b>Odor Threshold</b>	No information available
<b>Property</b>	<b>Values</b>	<b>Remarks/ - Method</b>	
pH	Not Applicable		
Melting Point/Range Boiling	Not Applicable		
Point/Boiling Range Flash	Not Applicable		
Point	Not Applicable		
Evaporation rate	Not Applicable		
Flammability (solid, gas)	No data available		
Flammability Limits in Air			
upper flammability limit	No data available		
lower flammability limit	No data available		
Vapor Pressure	No data available	None known	
Vapor Density	Not Applicable	None known	
Specific Gravity	1.8-1.9 @ 25°C		
Water Solubility	Insoluble	None known	
Solubility in other solvents	Partially soluble in acetone and ethanol	None known	

### Information on basic physical and chemical properties

Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	High viscosity	
<b>Flammable Properties</b>	Not flammable	
<b>Explosive Properties</b>	No data available	
<b>Oxidizing Properties</b>	No data available	

### Other information

VOC Content (%)	None
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## 10. STABILITY AND REACTIVITY

### Reactivity

No dangerous reaction known under conditions of normal use.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal conditions.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to avoid

Ignitions sources - heat, sparks and open flames.

### Incompatible materials

Strong acids. Strong oxidizing agents.

### Hazardous decomposition products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Product Information</b>	The product itself has not been tested. Data is for major component in product.
<b>Inhalation</b>	May cause drowsiness and dizziness based on components. May cause irritation of respiratory tract.
<b>Eye Contact</b>	Irritating to eyes.
<b>Skin Contact</b>	May cause skin irritation and/or dermatitis.
<b>Ingestion</b>	Potential for aspiration if swallowed. Vomiting may aspirate into lungs and cause chemical pneumonia.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Symptoms</b>	May cause drowsiness and dizziness. Eye contact with liquid may cause irritation including stinging, burning, tearing, or reddening of the eyes.
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### Delayed and immediate effects and also chronic effects from short and long term exposure

<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	No information Available.

### **Acute Toxicity**

Chemical Name	Result	Species	Dose
urethane dimethacrylate	LD 50 Oral	Rat	>5000 mg/kg
triethylene glycol dimethacrylate	LD 50 Oral	Rat	10837 mg/kg

<b>Reproductive Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects</b>	Respiratory system.
<b>Aspiration Hazard</b>	Based on product level data, this product does not meet the requirement to be classified as an aspiration hazard. However, this product contains an ingredient that may cause aspiration if swallowed.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
urethane dimethacrylate 934705-15-4	EC50 72 h 0.68mg/l	Not Established	EC50 24 h 1.2 mg/l
Triethylene glycol dimethacrylate 109-16-0	Not established	Not established	Not established

<b>Persistence and Degradability</b>	No information available.
<b>Bioaccumulation</b>	No information available.

### Other Adverse Effects

No information available.

**13. DISPOSAL CONSIDERATIONS****Waste Disposal Methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging**

Do not re-use empty containers.

**14. TRANSPORT INFORMATION****DOT****UN-Number**

Not Regulated

**Proper shipping name****Hazard Class****Packing Group****Description****Emergency Response Guide****Number**

## 15. REGULATORY INFORMATION

### International Inventories

#### **TSCA**

All components of this product are either listed or are exempt on the TSCA inventory.

### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

### U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### U.S. State Regulations

#### California Proposition 65

None of the components are listed

### U.S. State Right-to-Know Regulations

Massachusetts	The following components are listed: Amorphous silica
New York	None of the components are listed
New Jersey	Fluorides; barium compounds
Pennsylvania	Barium compounds; silica

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. OTHER INFORMATION

<b>NFPA</b>	Health Hazard 1	Flammability 0	Instability 0	Physical and Chemical Hazards -
<b>HMIS</b>	Health Hazard 1	Flammability 0	Physical Hazard 0	Personal Protection X

**Revision Date**

28-May-2015

**General Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**



# SAFETY DATA SHEET

Issuing Date 29 May-2015

Revision Date 29 May-2015

ECR# 23583

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

Product Name Etch n Seal

### Other means of identification

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use Professional Dental

Uses advised against No information available

### Supplier's details

#### **Supplier Address**

DenMat  
1017 W. Central Ave.  
Lompoc, CA 93436  
TEL: 805-346-3700

### Emergency telephone number

Emergency Telephone Number 805-346-3700



## 2. HAZARDS IDENTIFICATION

### Classification

### GHS Label elements, including precautionary statements



**Appearance** Red

**Physical State** Liquid/gel.

**Odor** unpleasant, do not smell

### Hazard statement(s)

H314 Causes severe skin burns and eye damage.

### Precautionary statement(s)

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
Phosphoric acid	7664-38-2	25 - 35%	*
Aluminum oxalate hydrate	814-87-9	0.1 – 1	*

*\*The exact percentage (concentration) of composition has been withheld as a trade secret.*

## 4. FIRST AID MEASURES

### Description of necessary first-aid measures

<b>Eye Contact</b>	Remove contact lenses before flushing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.
<b>Ingestion</b>	DO NOT INDUCE VOMITING –Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
<b>Skin Contact</b>	Wash with soap and water. Get medical attention if irritation develops or persists.
<b>Inhalation</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical attention.

## 5. FIRE-FIGHTING MEASURES

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Specific Hazards Arising from the Chemical**

Carbon dioxide

**Explosion Data**

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

None

**Protective Equipment and Precautions for Firefighters**

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight from a protected location or safe distance.

## 6. ACCIDENTAL RELEASE MEASURES

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

**Personal Precautions**

Ensure adequate ventilation. Avoid breathing vapors or mists.  
Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

**Environmental Precautions**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Environmental Precautions**

Avoid release to the environment. Dispose of contents/container to an approved waste disposal plant. See Section 12 for additional Ecological Information.

**Methods and materials for containment and cleaning up**

**Methods for Containment**

Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up**

Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Handling**

Ensure adequate ventilation. Will attack glass and porcelain. Do not contact any spills or diluted . Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

**Conditions for safe storage, including any incompatibilities**

**Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Products**

Strong bases. Strong oxidizing agents.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric Acid 7664-38-2	0.5 ppm	3 ppm	Not established

**Appropriate engineering controls**

**Engineering Measures**

Showers

Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

<b>Eye/Face Protection</b>	Safety glasses with side-shields. Tightly fitting safety goggles.
<b>Skin and Body Protection</b>	Long sleeved clothing. Impervious gloves.
<b>Respiratory Protection</b>	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	liquid (gel)	<b>Appearance</b>	red
<b>Odor</b>	None	<b>Odor Threshold</b>	No information available
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks/ - Method</u></b>	
pH	Not Applicable	None known	
Melting Point/Range	< 0° C	None known	
Boiling Point/ Range	Not Established	None known	
Flash Point	No data available	None known	
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available		
Flammability Limits in Air			
upper flammability limit	No data available		
lower flammability limit	No data available		
Vapor Pressure	No data available	None known	
Vapor Density	No data available	None known	
Specific Gravity	No data available	None known	
Water Solubility	Soluble	None known	
Solubility in other solvents	Minimal	None known	

### Information on basic physical and chemical properties

Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	Thin gel	
<b>Flammable Properties</b>	Not flammable	
<b>Explosive Properties</b>	No data available	
<b>Oxidizing Properties</b>	No data available	

### Other information

VOC Content (%)	None
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**10. STABILITY AND REACTIVITY****Reactivity**

No dangerous reaction known under conditions of normal use.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

Glass contact, strong bases or organic anhydrides

**Incompatible materials**

Strong acids. Strong oxidizing agents.

**Hazardous decomposition products**

None expected

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Acute Toxicity: LD50 not determined

**Delayed and immediate effects and also chronic effects from short and long term exposure**

Sensitization	No information available.
Mutagenic Effects	No information available.
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.  ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen
Reproductive Toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organ Effects	Eyes. Respiratory system.

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Persistence and Degradability No information available.

Bioaccumulation No information available.

**Other Adverse Effects**

No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging** Do not re-use empty containers.

**14. TRANSPORT INFORMATION****DOT**

UN-Number	1760
Hazard Class	8
Packing Group	III
Description	
Emergency Response Guide Number	

**IATA**

UN-Number	1760
Proper Shipping Name	Corrosive Liquid, n.o.s. (Phosphoric acid mixture)
Hazard Class	8
Packing Group	III
ERG Code	
Description	

<b>15. REGULATORY INFORMATION</b>
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**International Inventories****TSCA**

All components of this product are either listed or are exempt on the TSCA inventory.

**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Phosphoric acid	X	X	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

<b>16. OTHER INFORMATION</b>
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<b><u>NFPA</u></b>	Health Hazard 3	Flammability 0	Instability 0	Physical and Chemical Hazards - 0
<b><u>HMIS</u></b>	Health Hazard 3	Flammability 0	Physical Hazard 0	Personal Protection X

Revision Date 29-May-2015

**General Disclaimer**

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**End of Safety Data Sheet**



# SAFETY DATA SHEET

Issuing Date 28-Jan-2016

Revision Date 28-Jan-2016

ECR# 23987

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

Product Name Cerinate-Prime, L/C Cerinate Prime

### Other means of identification

UN-Number UN1120

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use Professional Dental Porcelain Primer

Uses advised against No information available

### Supplier's details

Supplier Address  
DenMat  
1017 W. Central Ave.  
Lompoc, CA 93436  
TEL: 805-346-3700

### Emergency telephone number

Emergency Telephone Number 805-346-3700

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation	Category 2
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3
Flammable liquids	Category 2

### GHS Label elements, including precautionary statements

### Emergency Overview

Signal Word Danger

Hazard Statements

Signal Word  
Hazard Statements  
• Causes serious eye irritation  
• May cause drowsiness or dizziness  
• Highly flammable liquid and vapor.



**Appearance** Clear to light yellow**Physical State** Liquid.**Odor** Aromatic solvent/pungent**Precautionary Statements****Prevention**

- Wash face, hands and any exposed skin thoroughly after handling.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Keep away from heat/sparks/open flames/hot surfaces - No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Keep cool

**General Advice**

None

**Eyes**

- IF IN EYES: Rinse Cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- IF eye irritation persists: Get medical advice/attention

**Skin**

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

**Inhalation**

- If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or doctor/physician if you feel unwell

**Fire**

- In case of fire: Use CO2, dry chemical, or foam for extinction

**Storage**

- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.

**Disposal**

- Dispose of contents/container to an approved waste disposal plant.

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

Aspiration hazard if swallowed - can enter lungs and cause damage  
Harmful to aquatic life

<5% of the mixture consists of ingredient(s) of unknown toxicity.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %	Trade secret
organosilane ester	proprietary	20-30	*
ethoxylated bis-phenol-A dimethacrylate	41637-38-1	5-10	*
n-butanol	71-36-3	60 -70	*
triethylene glycol dimethacrylate	109-16-0	1-5	*
ethyl 4-dimethylaminobenzoate	10287-53-3	0.1 - 1	*
2-(2' hydroxy-5'-octylphenyl) benzotriazole	3147-75-9	0.1 - 1	*
di hydroxyethyl p toluidine	3077-12-1	0.01 – 0.1	*
camphorquinone	10373-78-1	0.01 – 0.1	*
Gamma-Glycidoxypropyltrimethoxysilane	2530-83-8	1-5	*
Gamma-Methacryloxypropyltrimethoxysilane	2530-85-0	1-5	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

##### Description of necessary first-aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.
Skin Contact	Wash off with warm water and soap. Consult a physician if necessary.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Seek immediate medical attention/advice.
Ingestion	Do NOT induce vomiting. Aspiration hazard if swallowed - can enter lungs and cause damage. Call a physician or Poison Control Center immediately.

##### Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects	Dizziness. Drowsiness.
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##### Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician	Condition of the patient should be carefully monitored. Aspiration of this product during induced emesis can result in lung injury. If evacuation of stomach contents is considered necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a Poison Control Center for additional treatment information.
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#### 5. FIRE-FIGHTING MEASURES

##### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** CAUTION: Use of water spray when fighting fire may be inefficient.

##### Specific Hazards Arising from the Chemical

Extremely flammable.

##### Explosion Data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	Yes.

##### Protective Equipment and Precautions for Firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight from a protected location or safe distance.

#### 6. ACCIDENTAL RELEASE MEASURES

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

Personal Precautions	Ensure adequate ventilation. Avoid breathing vapors or mists. Remove all sources of ignition. Take precautionary measures against static discharges. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.
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**Environmental Precautions****Environmental Precautions**

Avoid release to the environment. Dispose of contents/container to an approved waste disposal plant. See Section 12 for additional Ecological Information.

**Methods and materials for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Pick up and transfer to properly labeled containers.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Handling** Ensure adequate ventilation. Avoid breathing vapors. Keep away from open flames, hot surfaces and sources of ignition. Ground and bond all lines and equipment associated with product system. All equipment should be non-sparking and explosion proof. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Products** Strong acids. Strong oxidizing agents.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
n-butanol 71-36-3	TWA:20 ppm	100 ppm 300 mg/m <sup>3</sup>	50 ppm Ceiling 150 mg/m <sup>3</sup> Ceiling

**Appropriate engineering controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Safety glasses with side-shields. Tightly fitting safety goggles.  
**Skin and Body Protection** Long sleeved clothing. Impervious gloves.  
**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Appearance	Clear to light yellow.
Odor	Aromatic solvent	Odor Threshold	No information available
<b>Property</b>	<b>Values</b>	<b>Remarks/ - Method</b>	
pH	N/A	None known	
Melting Point/Range	Not determined	None known	
Boiling Point/Range	140 °C		
Flash Point	70 °C		
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limits in Air			
upper flammability limit	No data available		
lower flammability limit	No data available		
Vapor Pressure	3 mm Hg		
Vapor Density	2.1		
Specific Gravity	0.90 @ 25°C	None known	
Water Solubility	Minimal		
Solubility in other solvents	100% soluble in acetone and ethanol	None known	

### Information on basic physical and chemical properties

Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	Similar to water	
Flammable Properties	Flammable	
Explosive Properties	No data available	
Oxidizing Properties	No data available	

### Other information

VOC Content (%)	60%
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## 10. STABILITY AND REACTIVITY

### Reactivity

No dangerous reaction known under conditions of normal use.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to avoid

Ignitions sources - heat, sparks and open flames.

### Incompatible materials

Strong acids. Strong oxidizing agents.

### Hazardous decomposition products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Product Information</b>	The product itself has not been tested. Data is for major component in product.
<b>Inhalation</b>	May cause drowsiness and dizziness based on components. May cause irritation of respiratory tract.
<b>Eye Contact</b>	Irritating to eyes.
<b>Skin Contact</b>	May cause skin irritation and/or dermatitis.
<b>Ingestion</b>	Potential for aspiration if swallowed. Vomiting may aspirate into lungs and cause chemical pneumonia.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Symptoms</b>	May cause drowsiness and dizziness. Eye contact with liquid may cause irritation including stinging, burning, tearing, or reddening of the eyes.
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### Delayed and immediate effects and also chronic effects from short and long term exposure

<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	Ethanol has been shown to be carcinogenic in long-term studies only when consumed and abused as an alcoholic beverage.
<b>Reproductive Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects</b>	Eyes. Respiratory system.
<b>Aspiration Hazard</b>	Based on product level data, this product does not meet the requirement to be classified as an aspiration hazard. However, this product contains an ingredient that may cause aspiration if swallowed.

### Numerical measures of toxicity - Product

<b>Acute Toxicity</b>	<10% of the mixture consists of ingredient(s) of unknown toxicity. <i>The following values are calculated based on chapter 3.1 of the GHS document:</i>
<b>LD50 Oral</b>	Not established
<b>Inhalation</b>	
<b>dust/mist</b>	Not established

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
n- Butanol 71-36-3	500 mg/L EC50 Desmodesmus subspicatus 72h 500 mg/L EC50 Desmodesmus subspicatus 96 h	100000-500000 µg/L LC50 Lepomis macrochirus 96 h static 1 1730-1910 mg/L LC50 Pimephales promelas 96 h static 1 1740 mg/L LC50 Pimephales promelas 96 h flow-through 1	N/A	1897 - 2072 mg/L EC50 Daphnia magna 48 h 1983 mg/L EC50 Daphnia magna 48 h

<b>Persistence and Degradability</b>	No information available.
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<b>Bioaccumulation</b>	No information available.
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### Other Adverse Effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Methods</b>	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise
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comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging**

Do not re-use empty containers.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
N Butyl alcohol 71-36-3	None	None	None	U031 ignitable waste

**14. TRANSPORT INFORMATION****DOT**

UN-Number	UN1120
Proper shipping name	Flammable liquids, n.o.s.
Hazard Class	3
Packing Group	II
Description	UN1120, Flammable liquids, n.o.s. (butanols), 3, II

**15. REGULATORY INFORMATION****International Inventories****TSCA**

All components of this product are either listed or are exempt on the TSCA inventory.

**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No



**15. REGULATORY INFORMATION****Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations****California Proposition 65**

Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

**U.S. State Right-to-Know Regulations****U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	Health Hazard 2	Flammability 2	Instability 0	Physical and Chemical Hazards -
<b><u>HMIS</u></b>	Health Hazard 2	Flammability 2	Physical Hazard 0	Personal Protection X

**General Disclaimer**

Issuing Date 28-Jan-2016  
Revision Date 28-Jan-2016

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**End of Safety Data Sheet**