

## **SAFETY DATA SHEETS**

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

072679876

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

072675239

**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 072679058 072679173 072679181



# 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** Core Paste Part A, Quick, Enamel, White, Blue,  
with Fluoride

### 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

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#### 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 |
|---|------------|--------------|--------------|
| ethoxylated bis-phenol-A dimethacrylate     | 41637-38-1 | 20-25        | *            |
| triethylene glycol dimethacrylate           | 109-16-0   | 5 - 10       | *            |
| silica                                      | 68611-44-9 | 2 – 5        | *            |
| benzoyl peroxide                            | 65997-17-3 | 0.25 – 0.5   | *            |
| 2-(2' hydroxy-5'-octylphenyl) benzotriazole | 3147-75-9  | 0.25 – 0.5   | *            |
| butylated hydroxytoluene                    | 128-37-0   | 0.001 – 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

**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 |
|-----------------|------|

## 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. |
|-----------------|--|

### 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<br>>100 mg/l<br>OECD Guideline 201 | LD50 96h<br>>100 mg/l<br>OECD Guideline 203 | EC50 48h<br>>100 mg/l<br>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

## 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, benzoyl peroxide |
| 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           |

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 Core Paste XP and Syringeable

### 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 CO<sub>2</sub>, 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 |
|---|------------|--------------|--------------|
| ethoxylated bisphenol-a-dimethacrylate            | 56744-60-6 | 20-25        | *            |
| triethylene glycol dimethacrylate                 | 109-16-0   | 5 - 10       | *            |
| silica  | 68611-44-9 | 2 – 5        | *            |
| di hydroxyethyl p toluidine                       | 430227     | 0.1 - 1      | *            |
| 2-(2' hydroxy-5'-octylphenyl) benzotriazole       | 3147-75-9  | 0.1 - 1      | *            |
| benzoyl peroxide                                  | 94-36-0    | 0.1 - 1      | *            |
| diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide | 75980-60-8 | 0.5 - 1      | *            |
| butylated hydroxytoluene                          | 128-37-0   | 0.01 – 0.2   | *            |
| ethyl 4-dimethylaminobenzoate                     | 10287-53-3 | 0.001 – 0.01 | *            |
| camphorquinone                                    | 10373-78-1 | 0.001 – 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

**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 |
|-----------------|------|

## 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. |
|-----------------|--|

### 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<br>>100 mg/l<br>OECD Guideline 201 | LD50 96h<br>>100 mg/l<br>OECD Guideline 203 | EC50 48h<br>>100 mg/l<br>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

### 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, benzoyl peroxide |
| 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> | Health Hazard 1 | Flammability 0 | Instability 0     | Physical and Chemical Hazards - |
| <b><u>HMIS</u></b> | Health Hazard 1 | Flammability 0 | Physical Hazard 0 | Personal Protection 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 29 Oct 2021

Revision Date 29 Oct 2021

ECR# 27964

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

### GHS product identifier

**Product Name** Tenure Adhesive Part A

### Other means of identification

**UN-Number** UN1993

**Synonyms** None

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

**Recommended Use** Dental bonding agent

**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/acetone

## 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 CO<sub>2</sub>, 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 |
|---------------|-------------|----------|--------------|
| Acetone       | 67-64-1     | 85 - 95  | *            |
| NTG-GMA Salt  | 133736-31-9 | 3-5      | *            |

*\*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

**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.

#### 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   |
|-----------------------------|-------------------------------|---|--|
| Acetone<br>67-64-1          | STEL: 750 ppm<br>TWA: 500 ppm | TWA: 1000 ppm<br>TWA: 2400 mg/m <sup>3</sup><br>(vacated) TWA: 750 ppm<br>(vacated) TWA: 1800 mg/m <sup>3</sup><br>(vacated) STEL: 2400 mg/m <sup>3</sup><br>The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors<br>(vacated) STEL: 1000 ppm | IDLH: 2500 ppm 10% LEL<br>TWA: 250 ppm<br>TWA: 590 mg/m <sup>3</sup> |
| NTG-GMA Salt<br>133736-31-9 | N/D                           | N/D   | N/D  |

**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/acetone            | <b>Odor Threshold</b>           | No information available |
| <b><u>Property</u></b>       | <b><u>Values</u></b>                | <b><u>Remarks/ - Method</u></b> |                          |
| pH                           | No Data Available                   | None known                      |                          |
| Melting Point/Range Boiling  | Not determined                      | None known                      |                          |
| Point/Boiling Range          | 55-60 °C                            | None known                      |                          |
| Flash Point                  | -17 °C                              | For acetone                     |                          |
| 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               | 184 mm Hg                           | None known                      |                          |
| Vapor Density                | 2.0                                 | None known                      |                          |
| Specific Gravity             | 0.7 - 0.8 @ 25°C                    | None known                      |                          |
| Water Solubility             | Soluble                             | None known                      |                          |
| 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  | None known |
| <b>Flammable Properties</b>            | Not flammable     |            |
| <b>Explosive Properties</b>            | No data available |            |
| <b>Oxidizing Properties</b>            | No data available |            |

**Other information**

|                 |     |
|-----------------|-----|
| VOC Content (%) | 90% |
|-----------------|-----|

## 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. |
|-----------------|--|

### 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>  | <5% 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>   | 7200 mg/kg; Acute toxicity estimate                               |
| <b>Inhalation</b>  |   |
| <b>dust/mist</b>   | 1520.7 mg/L; Acute toxicity estimate                              |

## 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)   |
|----------------------------|-------------------|---|----------------------------|--|
| Acetone 67-64-1            |                   | LC50 96 h: 4.74 - 6.33 mL/L (Oncorhynchus mykiss) LC50 96 h: 6210 – 8120 mg/L static (Pimephales promelas) LC50 96 h: = 8300 mg/L (Lepomis macrochirus) | EC50 = 14500 mg/L 15 min   | EC50 48 h: 10294 - 17704 mg/L Static (Daphnia magna) EC50 48 h: 12600 - 12700 mg/L (Daphnia magna) |
| Sodium NTG-GMA 133736-31-9 |                   | N/A   | N/A                        | N/A  |

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

| Chemical Name | Log Pow |
|---------------|---------|
| Acetone       | -0.24   |

### 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 |
|-------------------|------|-----------------------------------|------------------------|------------------------|
| Acetone - 67-64-1 |      | Included in waste stream:<br>F039 |                        | U002                   |

### 14. TRANSPORT INFORMATION

#### DOT

**UN-Number** UN1993  
**Proper shipping name** Flammable liquids, n.o.s.  
**Hazard Class** 3  
**Packing Group** II  
**Description** UN1993, Flammable liquids, n.o.s. (Acetone), 3, II

#### Emergency Response Guide Number

128

#### TDG

**UN-Number** UN1993  
**Proper Shipping Name** Flammable liquid, n.o.s.  
**Hazard Class** 3  
**Packing Group** II  
**Description** UN1993, Flammable liquid, n.o.s. (Acetone), 3, II

#### MEX

**UN-Number** UN1993  
**Proper Shipping Name** Flammable liquid, n.o.s.  
**Hazard Class** 3  
**Packing Group** II  
**Description** UN1993, Flammable liquid, n.o.s. (Acetone), 3, II

#### IATA

**UN-Number** UN1993  
**Proper Shipping Name** Flammable liquid, n.o.s.  
**Hazard Class** 3  
**Packing Group** II  
**ERG Code** 3H  
**Description** UN1993, Flammable liquid, n.o.s. (Acetone), 3, II

#### IMDG/IMO

**UN-Number** UN1993  
**Proper Shipping Name** Flammable liquid, n.o.s.  
**Hazard Class** 3  
**Packing Group** II

#### EmS No.

F-E, S-E

#### Description

UN1993, Flammable liquid, n.o.s. (Acetone, Ethyl alcohol), 3, II, (-20°C c.c.)

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  |

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.

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ   |
|---------------|--------------------------|------------------------------------|--|
| Acetone       | 5000 lb                  |                                    | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

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.



**WARNING: Cancer and Reproductive Harm.**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania | Illinois | Rhode Island |
|---------------|------------|---------------|--------------|----------|--------------|
| Acetone       | X          | X             | X            |          | X            |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

| NFPA | Health Hazard | 1  | Flammability | 3 | Instability     | 0 | Physical and Chemical Hazards - |
|------|---------------|----|--------------|---|-----------------|---|---------------------------------|
| HMS  | Health Hazard | 2* | Flammability | 3 | Physical Hazard | 0 | Personal Protection             |

|               |                 |
|---------------|-----------------|
| Issuing Date  | 29 October 2021 |
| Revision Date | 29 October 2021 |

**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 Oct 2021

Revision Date 29 Oct 2021

ECR# 27964

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

### GHS product identifier

Product Name Tenure Adhesive, Part B

### Other means of identification

UN-Number UN1993

Synonyms None

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

Recommended Use Dental bonding agent

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 |
| Skin Sensitization  | Category 1 |
| 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/acetone

## 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 CO<sub>2</sub>, 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 |
|--|------------|----------|--------------|
| Acetone  | 67-64-1    | 80-90    | *            |
| Bis[2-[(2-methyl-1-oxoallyl)oxy]ethyl] dihydrogen benzene-1,2,4,5-tetracarboxylate | 51156-91-3 | 10-15    | *            |

\*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

**Sensitivity to Mechanical Impact**  
**Sensitivity to Static Discharge**

None.  
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



## Tenure Adhesive Part B

### 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   |
|--|-------------------------------|---|--|
| Acetone<br>67-64-1   | STEL: 750 ppm<br>TWA: 500 ppm | TWA: 1000 ppm<br>TWA: 2400 mg/m <sup>3</sup><br>(vacated) TWA: 750 ppm<br>(vacated) TWA: 1800 mg/m <sup>3</sup><br>(vacated) STEL: 2400 mg/m <sup>3</sup><br>The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors<br>(vacated) STEL: 1000 ppm | IDLH: 2500 ppm 10% LEL<br>TWA: 250 ppm<br>TWA: 590 mg/m <sup>3</sup> |
| Bis[2-[(2-methyl-1-oxoallyl)oxy]ethyl] dihydrogen benzene-1,2,4,5-tetracarboxylate<br>51156-91-3 | N/D                           | N/D   | N/D  |

### 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/acetone            | <b>Odor Threshold</b>    | No information available |
| <b>Property</b>              | <b>Values</b>                       | <b>Remarks/ - Method</b> |                          |
| pH                           | Not determined                      | None known               |                          |
| Melting Point/Range          | Not determined                      | None known               |                          |
| Boiling Point/Boiling Range  | 55 - 60 °C                          | None known               |                          |
| Flash Point                  | -17 °C                              | For acetone              |                          |
| 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               | No data available                   | None known               |                          |
| Vapor Density                | No data available                   | None known               |                          |
| Specific Gravity             | 0.7 - 0.8 @ 25°C                    | None known               |                          |
| Water Solubility             | soluble                             | None known               |                          |
| 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  | None known |
| <b>Flammable Properties</b>            | Not flammable     |            |
| <b>Explosive Properties</b>            | No data available |            |
| <b>Oxidizing Properties</b>            | No data available |            |

### Other information

|                 |     |
|-----------------|-----|
| VOC Content (%) | 82% |
|-----------------|-----|

## 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. |
|-----------------|--|

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

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

|                   |                                      |
|-------------------|--------------------------------------|
| <b>LD50 Oral</b>  | 7200 mg/kg; Acute toxicity estimate  |
| <b>Inhalation</b> |                                      |
| dust/mist         | 1520.7 mg/L; Acute toxicity estimate |

## 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)   |
|-----------------|-------------------|---|----------------------------|--|
| Acetone 67-64-1 |                   | LC50 96 h: 4.74 - 6.33 mL/L (Oncorhynchus mykiss) LC50 96 h: 6210 - 8120 mg/L static (Pimephales promelas) LC50 96 h: = 8300 mg/L (Lepomis macrochirus) | EC50 = 14500 mg/L 15 min   | EC50 48 h: 10294 - 17704 mg/L Static (Daphnia magna) EC50 48 h: 12600 - 12700 mg/L (Daphnia magna) |

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

| Chemical Name | Log Pow |
|---------------|---------|
| Acetone       | -0.24   |

### 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 |
|-------------------|------|-----------------------------------|------------------------|------------------------|
| Acetone - 67-64-1 |      | Included in waste stream:<br>F039 |                        | U002                   |

### 14. TRANSPORT INFORMATION

**DOT**

UN-Number UN1993  
 Proper Shipping name Flammable liquids, n.o.s.  
 Hazard Class 3  
 Packing Group II  
 Description UN1993, Flammable liquids, n.o.s. (Acetone), 3, II

**Emergency Response Guide Number**

128

**TDG**

UN-Number UN1993  
 Proper Shipping Name Flammable liquid, n.o.s.  
 Hazard Class 3  
 Packing Group II  
 Description UN1993, Flammable liquid, n.o.s. (Acetone), 3, II

**MEX**

UN-Number UN1993  
 Proper Shipping Name Flammable liquid, n.o.s.  
 Hazard Class 3  
 Packing Group II  
 Description UN1993, Flammable liquid, n.o.s. (Acetone), 3, II

**IATA**

UN-Number UN1993  
 Proper Shipping Name Flammable liquid, n.o.s.  
 Hazard Class 3  
 Packing Group II  
 ERG Code 3H  
 Description UN1993, Flammable liquid, n.o.s. (Acetone), 3, II

**IMDG/IMO**

UN-Number UN1993  
 Proper Shipping Name Flammable liquid, n.o.s.  
 Hazard Class 3  
 Packing Group II

EmS No. F-E, S-E  
 Description UN1993, Flammable liquid, n.o.s. (Acetone), 3, II, (-20°C c.c.)

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  |

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.

|               |                          |                                    |  |
|---------------|--------------------------|------------------------------------|--|
| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ   |
| Acetone       | 5000 lb                  |                                    | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

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.



**WARNING:** Cancer and Reproductive Harm.  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

U.S. State Right-to-Know Regulations

|               |            |               |              |          |              |
|---------------|------------|---------------|--------------|----------|--------------|
| Chemical Name | New Jersey | Massachusetts | Pennsylvania | Illinois | Rhode Island |
| Acetone       | X          | X             | X            |          | X            |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

|                    |                  |                |                   |                               |
|--------------------|------------------|----------------|-------------------|-------------------------------|
| <b><u>NFPA</u></b> | Health Hazard 1  | Flammability 3 | Instability 0     | Physical and Chemical Hazards |
| <b><u>HMIS</u></b> | Health Hazard 2* | Flammability   | Physical Hazard 0 | Personal Protection X         |

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|               |                 |
|---------------|-----------------|
| Issuing Date  | 29 October 2021 |
| Revision Date | 29 October 2021 |

**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<br>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. |
|-------------------------|---|

## 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 |
|-----------------|------|

**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.<br><br>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> |
|-----------------------------------|

**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> |
|------------------------------|

|                    |                 |                |                   |                                   |
|--------------------|-----------------|----------------|-------------------|-----------------------------------|
| <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**

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**