

**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 Virtuoso Sealant, Clear and Opaque

Other means of identification

Synonyms None

Product Type Paste

Recommended use of the chemical and restrictions on use

Recommended Use Professional 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**

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 Clear/pale yellow

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

#### **Eves**

- 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.

#### Virtuoso Sealant, Clear/Opaque

#### 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 bisphenol-a-dimethacrylate	56744-60-6	35 – 45	*
triethylene glycol dimethacrylate	109-16-0	1 – 5	*
urethane dimethacrylate	72869-86-4	20 – 30	*
2-hydroxyethyl methacrylate	868-77-9	1 - 5	*

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

# 4. FIRST AID MEASURES

**Description of necessary first-aid measures** 

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Consult a physician.

**Skin Contact** Wash off with warm water and soap. Consult a physician if necessary.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If feeling

unwell, seek medical attention.

Ingestion 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

#### Virtuoso Sealant, Clear/Opaque Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

## Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Safety glasses with side-shields. Tightly fitting safety goggles.

**Skin and Body Protection** Long sleeved clothing. Impervious gloves.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice. Remove and wash

contaminated clothing before re-use. Wash thoroughly after handling.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid (paste) Appearance Various colors

Odor Minimal; Ester/sweet Odor Threshold No information available

Property Values Remarks/ - Method

pH Not Applicable

Melting Point/Range Boiling Not Applicable

**Boiling Point** 227° C

Evaporation rate Not Applicable

Flammability (solid, gas) Not Applicable

Flammability Limits in Air

upper flammability limitNo data availablelower flammability limitNo data available

Vapor PressureNo data availableNone knownVapor DensityNot ApplicableNone known

**Specific Gravity** 1.07 – 1.08 @ 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 N

Autoignition Temperature
Decomposition Temperature

No data available None known
No data available None known
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

Product Information The product itself has not been tested. Data is for major component in product.

**Inhalation** May cause drowsiness and dizziness based on components. May cause irritation of

respiratory tract.

**Eye Contact** Irritating to eyes.

**Skin Contact** May cause skin irritation and/or dermatitis.

Ingestion Potential for aspiration if swallowed. Vomiting may aspirate into lungs and cause chemical

pneumonia.

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

Symptoms 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

SensitizationNo information available.Mutagenic EffectsNo information available.CarcinogenicityNo information Available.

## **Acute Toxicity**

Chemical Name	Result	Species	Dose
ethoxylated bis-phenol-A	LD 50 Oral	Rat	>2000 mg/kg
urethane dimethacrylate	LD 50 Oral	Rat	>5000 mg/kg
2-hydroxyethyl methacrylate	LD 50 Oral	Rat	5,564 mg/kg
triethylene glycol dimethacrylate	LD 50 Oral	Rat	10837 mg/kg

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Target Organ Effects
No information available.
No information available.
Respiratory system.

Aspiration Hazard Based on product level data, this product does not meet the requirement to be classified as

an aspiration hazard. However, this product contains an ingredient that may cause aspiration if swallowed.

# 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

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

Chemical Name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
ethoxylated bis- phenol-A dimethacrylate 41637-38-1	EC50 48h >100 mg/l OECD Guideline 201	LD50 96h >100 mg/l OECD Guideline 203	EC50 48h >100 mg/l OECD Guideline 202
urethane dimethacrylate 934705-15-4	EC50 72 h 0.68mg/l	Not Established	EC50 24 h 1.2 mg/l
2-hydroxyethyl methacrylate 868-77-9		Flow Through (Fathead Minnow) 227 mg/l - 96 h	
Triethylene glycol dimethacrylate 109-16-0	Not established	Not established	Not established

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 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

#### Virtuoso Sealant, Clear/Opaque

# 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 HazardYesChronic Health HazardYesFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

# 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



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

Massachusetts
New York
New Jersey
Pennsylvania
None of the components are listed

# U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

16. OTHER INFORMATION				
NFPA	Health Hazard 1	Flammability 1	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 1	Flammability 1	Physical Hazard 0	Personal Protection X

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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**