

SAFETY DATA SHEET

Issuing Date 22-May-2015 Revision Date 22-May-2015 ECR# 23573

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

GHS product identifier

Product Name Revitalize

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 Hazard Statements

Signal Word: Warning Hazard Statements

- Causes serious eye irritation
- May cause respiratory irritation.



Appearance Various colored paste

Physical State Paste Odor slight ester/sweet smell

Precautionary Statements

Prevention

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

General Advice

None

Eyes

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

Skin

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

Inhalation

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

Fire

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

Storage

· Store locked up.

Disposal

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

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

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

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
urethane dimethacrylate monomer	72869-86-4	60-80	*
Triethylene glycol dimethacrylate	109-16-0	10-20	*
silica	68611-44-9	1-5	*
2-(2' hydroxy-5'-octylphenyl) benzotriazole	3147-75-9	1-5	*
ethyl 4-dimethylaminobenzoate	10287-53-3	0-0.5	*
camphorquinone	10373-78-1	0-0.5	*
butylated hydroxytoluene	128-37-0	0-0.01	*

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

4. FIRST AID MEASURES

Description of necessary first-aid measures

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

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 Skin and Body Protection Respiratory Protection Safety glasses with side-shields. Tightly fitting safety goggles.

Long sleeved clothing. Impervious gloves.

espiratory 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
Point/Boiling Range Flash Not Applicable
Point Not Applicable
Evaporation rate Not Applicable
Flammability (solid, gas) No data available

Flammability Limits in Air

upper flammability limit
lower flammability limit
No data available
No data available

Vapor PressureNo data availableNone knownVapor DensityNot ApplicableNone knownSpecific Gravity1.75-1.85 @ 25°C

Water Solubility Insoluble None known Solubility in other solvents Mostly soluble in acetone and ethanol None known

Information on basic physical and chemical properties

 Partition coefficient: n-octanol/water
 No data available
 None known

 Autoignition Temperature
 No data available
 None known

 Decomposition Temperature
 No data available
 None known

 Viscosity
 Medium viscosity

Flammable Properties Not flammable

Explosive Properties No data available Oxidizing Properties No data available

Other information

VOC Content (%) None

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

May cause drowsiness and dizziness. Eye contact with liquid may cause irritation including **Symptoms**

stinging, burning, tearing, or reddening of the eyes.

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

Sensitization No information available. **Mutagenic Effects** No information available. No information Available. Carcinogenicity

Acute Toxicity

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

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

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

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)
Triethylene glycol dimethacrylate 109-16-0	Not established	Not established	Not established
urethane dimethacrylate 72869-86-4	EC50 72 h 0.68mg/l	Not Established	EC50 24 h 1.2 mg/l

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

Proper shipping name Hazard Class Packing Group

Description

Emergency Response Guide

Number

<u>TDG</u>

UN-Number Not Regulated

Proper Shipping Name Hazard Class

Packing Group
Description

MEX

UN-Number Not Regulated

Proper Shipping Name Hazard Class

Packing Group
Description

<u>IATA</u>

UN-Number Not Regulated

Proper Shipping Name

Hazard Class Packing Group ERG Code Description

IMDG/IMO

UN-Number

Proper Shipping Name

Hazard Class
Packing Group

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 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

None of the components are listed

U.S. State Right-to-Know Regulations

Massachusetts The following components are listed: Amorphous silica

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

Pennsylvania Silica

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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

Revision Date 22-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