



SAFETY DATA SHEET

Issuing Date 11-May-2015

Revision Date 11-May-2015

Revision Number 23549

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

GHS product identifier

Product Name Tenure S

Other means of identification

UN-Number NA1993

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Porcelain veneer drying/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)

| | |
|-----------------------------------|------------|
| Skin Corrosion/Irritation | Category 2 |
| Serious Eye Damage/Eye Irritation | Category 2 |
| Skin Sensitization | Category 1 |
| Flammable liquids | Category 4 |

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word Warning

Hazard Statements

- Causes skin irritation
- Causes serious eye irritation
- May cause an allergic skin reaction
-
- Combustible liquid.

**Appearance** Clear, Yellow, Liquid**Physical State** Liquid.**Odor** Ester, Sweet**Precautionary Statements****Prevention**

- Wash face, hands and any exposed skin thoroughly after handling.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Contaminated work clothing should not be allowed out of the workplace.
- Keep away from heat/sparks/open flames/hot surfaces - No smoking.
- Wear protective gloves/protective clothing/eye protection/face protection.

General Advice

- Specific treatment (see supplemental instructions on the administration of antidotes on this label)

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: Wash with plenty of soap and water.
- Take off contaminated clothing and wash before reuse.
- If skin irritation or rash occurs: Get medical advice/attention.

Fire

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

Storage

- Store in a well-ventilated place. Keep cool.

Disposal

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

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % | Trade secret |
|---------------|--------|----------|--------------|
|---------------|--------|----------|--------------|

| | | | |
|--|------------|-------|---|
| 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanedioxy-2,1-ethanedioyl) ester | 56744-60-6 | 40-60 | * |
| 2-Hydroxyethyl methacrylate | 868-77-9 | 20-40 | * |
| Triethylene glycol dimethacrylate | 109-16-0 | 10-20 | * |

*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 | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If irritation persists, call a physician. |
| Skin Contact | Wash off immediately with soap and plenty of water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. |
| Inhalation | Move to fresh air. If symptoms persist, call a physician. |
| Ingestion | Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician. |

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects Eye irritation/reactions. Tearing. Red eyes. Skin irritation. Itching. May cause allergic skin reaction.

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

Notes to Physician May cause sensitization of susceptible persons.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Explosion Data

| | |
|---|-------|
| Sensitivity to Mechanical Impact | None. |
| Sensitivity to Static Discharge | None. |

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.

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. Soak up with inert absorbent material. Clean contaminated surface thoroughly.

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

Handling Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Contaminated work clothing should not be allowed out of the workplace.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children.

Incompatible Products None known based on information supplied.

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

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--|--|-------------------------------------|---------------------------|
| 2,6-Di-tert-butyl-p-cresol 128-37-0 | TWA: 2 mg/m ³ inhalable fraction and vapor | (vacated) TWA: 10 mg/m ³ | TWA: 10 mg/m ³ |

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. If splashes are likely to occur, wear: Goggles.
Skin and Body Protection Wear protective gloves/clothing.
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. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing is recommended. Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

| | | | |
|-----------------------|--------------|-----------------------|--------------------------|
| Physical State | Liquid | Appearance | Clear, Yellow Liquid |
| Odor | Ester, Sweet | Odor Threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks/ - Method</u> |
|-----------------|---------------|--------------------------|
|-----------------|---------------|--------------------------|

| | | |
|--|--|------------|
| pH | No data available | None known |
| Melting Point/Range | No data available | None known |
| Boiling Point/Boiling Range | 227 °C | None known |
| Flash Point | 87 °C | None known |
| 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 | 1.08 @ 25°C; No units, but stated at a given temperature | None known |
| Water Solubility | Slightly soluble | None known |
| Solubility in other solvents | Mostly. | None known |
| 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 liquid | None known |
| Flammable Properties | Combustible | |
| Explosive Properties | No data available | |
| Oxidizing Properties | No data available | |

Other information

VOC Content (%) <1

10. STABILITY AND REACTIVITY

Reactivity

No data available.

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

Heat, flames and sparks.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

| | |
|---------------------|---|
| Inhalation | There is no data available for this product. Based on components: May cause irritation of respiratory tract. |
| Eye Contact | There is no data available for this product. Expected to be an irritant based on components |
| Skin Contact | There is no data available for this product. Expected to be an irritant based on components. May cause sensitization by skin contact. |
| Ingestion | There is no data available for this product. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

Toxicology data for the components

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-----------------------------------|-----------------------|------------------------|-----------------|
| 2-Hydroxyethyl methacrylate | = 5050 mg/kg (Rat) | >3000 mg/kg (Rabbit) | - |
| Triethylene glycol dimethacrylate | = 10837 mg/kg (Rat) | - | - |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|-----------------|---|
| Symptoms | Eye contact with liquid may cause irritation including stinging, burning, tearing, or reddening of the eyes. Allergic skin reactions or irritation. |
|-----------------|---|

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

| | |
|--------------------------|---|
| Sensitization | May cause sensitization by skin contact. |
| Mutagenic Effects | No information available. |
| Carcinogenicity | Contains no ingredients above reportable quantities listed as a carcinogen. |

| | |
|---------------------------------|---------------------------|
| Reproductive Toxicity | No information available. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | No information available. |
| Aspiration Hazard | No information available. |

Numerical measures of toxicity - Product

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

LD50 Oral 11119 mg/kg; 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) |
|---|---|---|--|----------------------------|
| 2-Hydroxyethyl methacrylate 868-77-9 | | LC50 96 h: 213-242 mg/L flow-through (Pimephales promelas) LC50 96 h: = 227 mg/L (Pimephales promelas) | | |
| 2,6-Di-tert-butyl-p-cresol 128-37-0 | EC50 72 h: = 6 mg/L (Pseudokirchneriella subcapitata) EC50 72 h: > 0.42 mg/L (Desmodesmus subspicatus) | LC50 48 h: = 5 mg/L (Oryzias latipes) | EC50 = 7.82 mg/L 5 min EC50 = 8.57 mg/L 15 min EC50 = 8.98 mg/L 30 min | |

Persistence and Degradability No information available.

Bioaccumulation No information available.

| Chemical Name | Log Pow |
|-----------------------------|---------|
| 2-Hydroxyethyl methacrylate | 0.47 |

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 | NA1993 |
| Proper shipping name | Combustible liquid, n.o.s. |
| Hazard Class | Combustible liquid |
| Packing Group | III |
| Description | NA1993, Combustible liquid, n.o.s., Combustible liquid, III |
| Emergency Response Guide Number | 128 |

TDG

Not regulated

MEX

Not regulated

ICAO

Not regulated

IATA

Not regulated

IMDG/IMO

Not regulated

RID

Not regulated

ADR

Not regulated

ADN

Not regulated

15. REGULATORY INFORMATION**International Inventories**

| | |
|-------------|--------|
| TSCA | Exempt |
| DSL | Exempt |

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

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 Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

| | | | | | | | | |
|--------------------|----------------------|---|---------------------|---|------------------------|---|--------------------------------------|---|
| <u>NFPA</u> | Health Hazard | 2 | Flammability | 2 | Instability | 0 | Physical and Chemical Hazards | - |
| <u>HMIS</u> | Health Hazard | 2 | Flammability | 2 | 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