



# TheraCal PT Base

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Revision date: 7/18/2023 Supersedes: 4/15/2019 Version: 2.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : TheraCal PT Base

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : For Rx Only

#### 1.3. Supplier

##### Manufacturer

BISCO, Inc.  
1100 W. Irving Park Rd.  
Schaumburg, IL , 60193  
U.S.A.  
T 1-800-247-3368 or 1-847-534-6000  
[sales@bisco.com](mailto:sales@bisco.com) - [www.bisco.com](http://www.bisco.com)

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC - 24-Hour Hazmat Emergency Communications Center  
Domestic: 1-800-424-9300 Outside the U.S.: 1-703-527-3887, collect calls accepted

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

|                                                                                               |      |                                     |
|-----------------------------------------------------------------------------------------------|------|-------------------------------------|
| Serious eye damage/eye irritation Category 2                                                  | H319 | Causes serious eye irritation       |
| Skin sensitization, Category 1                                                                | H317 | May cause an allergic skin reaction |
| Specific target organ toxicity - Single exposure, Category 3,<br>Respiratory tract irritation | H335 | May cause respiratory irritation    |

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation

Precautionary statements (GHS US) : P261 - Avoid breathing dust, fume, vapors.  
P264 - Wash hands thoroughly after handling  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P302+P352 - If on skin: Wash with plenty of water and soap  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P312 - Call a poison center/a doctor if you feel unwell  
P321 - Specific treatment (see First aid measures on this label)  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P363 - Wash contaminated clothing before reuse.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P501 - Dispose in a safe manner in accordance with local/national regulations

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name             | Product identifier  | %       | GHS US classification                                                              |
|------------------|---------------------|---------|------------------------------------------------------------------------------------|
| SG-Mix Cement    | CAS-No.: N/A        | 50 - 75 | Eye Irrit. 2, H319<br>STOT SE 3, H335                                              |
| BisGMA           | CAS-No.: 1565-94-2  | 5 - 10  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>STOT SE 3, H335 |
| Barium Zirconate | CAS-No.: 12009-21-1 | 1 - 5   | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Inhalation), H332                       |

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.  
Take off contaminated clothing. Wash contaminated clothing before reuse.  
First-aid measures after eye contact : 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.  
First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a poison center/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : May cause an allergic skin reaction.  
Symptoms/effects after eye contact : Eye irritation.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

#### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust, fume, vapors.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust, fume, vapors.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container closed when not in use.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

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### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

|                                                                          |
|--------------------------------------------------------------------------|
| <b>Hand protection:</b>                                                  |
| Protective gloves                                                        |
| <b>Eye protection:</b>                                                   |
| Safety glasses                                                           |
| <b>Skin and body protection:</b>                                         |
| Wear suitable protective clothing                                        |
| <b>Respiratory protection:</b>                                           |
| In case of insufficient ventilation, wear suitable respiratory equipment |

#### Personal protective equipment symbol(s):



#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                 |                     |
|-------------------------------------------------|---------------------|
| Physical state                                  | : Solid             |
| Appearance                                      | : Flowable Paste.   |
| Color                                           | : Tooth / Yellow    |
| Odor                                            | : Acrylic           |
| Odor threshold                                  | : No data available |
| pH                                              | : No data available |
| Melting point                                   | : No data available |
| Freezing point                                  | : Not applicable    |
| Boiling point                                   | : No data available |
| Flash point                                     | : Not applicable    |
| Relative evaporation rate (butyl acetate=1)     | : No data available |
| Flammability (solid, gas)                       | : Non flammable.    |
| Vapor pressure                                  | : No data available |
| Relative vapor density at 20°C                  | : No data available |
| Relative density                                | : Not applicable    |
| Solubility                                      | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature                       | : Not applicable    |
| Decomposition temperature                       | : No data available |
| Viscosity, kinematic                            | : Not applicable    |
| Viscosity, dynamic                              | : No data available |
| Explosion limits                                | : Not applicable    |

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Explosive properties : No data available  
Oxidizing properties : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

| Barium Zirconate (12009-21-1) |                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------|
| LD50 oral rat                 | 1980 mg/kg body weight Animal: rat, Animal sex: male, Guideline: EPA OPP 81-1 (Acute Oral Toxicity) |
| ATE US (oral)                 | 1980 mg/kg body weight                                                                              |
| ATE US (gases)                | 4500 ppmV/4h                                                                                        |
| ATE US (vapors)               | 11 mg/l/4h                                                                                          |
| ATE US (dust, mist)           | 1.5 mg/l/4h                                                                                         |

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitization : May cause an allergic skin reaction.  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : May cause respiratory irritation.

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| BisGMA (1565-94-2)                  |                                        |
|-------------------------------------|----------------------------------------|
| STOT-single exposure                | May cause respiratory irritation.      |
| SG-Mix Cement (N/A)                 |                                        |
| STOT-single exposure                | May cause respiratory irritation.      |
| STOT-repeated exposure              | : Not classified                       |
| Aspiration hazard                   | : Not classified                       |
| Viscosity, kinematic                | : Not applicable                       |
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |
| Symptoms/effects after eye contact  | : Eye irritation.                      |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

| BisGMA (1565-94-2)            |                                                                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]               | 0.537 mg/l Source: ECOSAR                                                                                                                  |
| Barium Zirconate (12009-21-1) |                                                                                                                                            |
| EC50 - Crustacea [1]          | > 1000 mg/l Test organisms (species): Daphnia magna                                                                                        |
| EC50 72h - Algae [1]          | 201.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

### 12.2. Persistence and degradability

| TheraCal PT Base              |                                               |
|-------------------------------|-----------------------------------------------|
| Persistence and degradability | Not established.                              |
| BisGMA (1565-94-2)            |                                               |
| Persistence and degradability | Biodegradability in water: no data available. |

### 12.3. Bioaccumulative potential

| TheraCal PT Base                                |                                    |
|-------------------------------------------------|------------------------------------|
| Bioaccumulative potential                       | Not established.                   |
| BisGMA (1565-94-2)                              |                                    |
| Partition coefficient n-octanol/water (Log Pow) | 4.94 (Estimated value)             |
| Bioaccumulative potential                       | No bioaccumulation data available. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

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### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

### SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

#### 14.1. UN number

Not regulated for transport

#### 14.2. UN proper shipping name

|                             |                 |
|-----------------------------|-----------------|
| Proper Shipping Name (DOT)  | : Not regulated |
| Proper Shipping Name (TDG)  | : Not regulated |
| Proper Shipping Name (IMDG) | : Not regulated |
| Proper Shipping Name (IATA) | : Not regulated |

#### 14.3. Transport hazard class(es)

##### DOT

Transport hazard class(es) (DOT) : Not regulated

##### TDG

Transport hazard class(es) (TDG) : Not regulated

##### IMDG

Transport hazard class(es) (IMDG) : Not regulated

##### IATA

Transport hazard class(es) (IATA) : Not regulated

#### 14.4. Packing group

|                      |                 |
|----------------------|-----------------|
| Packing group (DOT)  | : Not regulated |
| Packing group (TDG)  | : Not regulated |
| Packing group (IMDG) | : Not regulated |
| Packing group (IATA) | : Not regulated |

#### 14.5. Environmental hazards

Other information : No supplementary information available.

#### 14.6. Special precautions for user

##### DOT

Not regulated

##### TDG

Not regulated

##### IMDG

Not regulated

##### IATA

Not regulated

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

|               |             |          |
|---------------|-------------|----------|
| SG-Mix Cement | CAS-No. N/A | 50 - 75% |
|---------------|-------------|----------|

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

##### CANADA

##### BisGMA (1565-94-2)

Listed on the Canadian DSL (Domestic Substances List)

##### Barium Zirconate (12009-21-1)

Listed on the Canadian NDSL (Non-Domestic Substances List)

##### SG-Mix Cement (N/A)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

##### EU-Regulations

No additional information available

##### National regulations

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### SECTION 16: Other information

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Revision date : 7/18/2023

#### Full text of H-phrases

|      |                                     |
|------|-------------------------------------|
| H302 | Harmful if swallowed                |
| H315 | Causes skin irritation              |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation       |
| H332 | Harmful if inhaled                  |
| H335 | May cause respiratory irritation    |

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| Indication of changes: |                                        |          |                                     |
|------------------------|----------------------------------------|----------|-------------------------------------|
| Section                | Changed item                           | Change   | Comments                            |
|                        | Revision date                          | Added    | No additional information available |
|                        | Precautionary statements (GHS US)      | Modified | No additional information available |
|                        | Hazard statements (GHS US)             | Modified | No additional information available |
|                        | Supersedes                             | Added    | No additional information available |
|                        | Issue date                             | Removed  | No additional information available |
|                        | Signal word (GHS US)                   | Added    | No additional information available |
| 2.1                    | GHS-US classification                  | Modified | No additional information available |
| 3                      | Composition/Information on ingredients | Modified | No additional information available |
| 4                      | First-aid measures after ingestion     | Modified | No additional information available |
| 4                      | First-aid measures after skin contact  | Modified | No additional information available |
| 4                      | First-aid measures general             | Added    | No additional information available |
| 6                      | Emergency procedures                   | Modified | No additional information available |
| 7.1                    | Precautions for safe handling          | Modified | No additional information available |

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.